

Yorkshire Philosophical Society.

ANNUAL REPORT

FOR

M C M.



ANNUAL REPORT
OF THE COUNCIL
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY

FOR

MCM.

PRESENTED TO THE ANNUAL MEETING,

FEBRUARY 11TH, 1901.



YORK:
COULTAS & VOLANS, PRINTERS, KING STREET,
1901.

TRUSTEES
OF
THE YORKSHIRE MUSEUM.
APPOINTED BY ROYAL GRANT.

TEMPEST ANDERSON, M.D.

EDWIN GRAY, LL.M.

WILLIAM LAWTON.

T. S. NOBLE.

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OF THE
Yorkshire Philosophical Society.

HIS MAJESTY THE KING.

HER MAJESTY THE QUEEN.

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GEOLOGY-	- - - - -	J. F. WALKER, M.A., F.G.S.
MINERALOGY	- - - - -	W. H. HUDLESTON, M.A., F.R.S.
COMPARATIVE ANATOMY	- -	T. ANDERSON, M.D., B.Sc.
ORNITHOLOGY	- - - - -	J. BACKHOUSE, F.Z.S., M.B.O.U.
BOTANY	- - - - -	H. J. WILKINSON.
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KEEPER OF THE MUSEUM :

HENRY MAURICE PLATNAUER, A.R.S.M., B.Sc.

REPORT OF THE COUNCIL
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY.

FEBRUARY 11TH, 1901.

THE closing year of the century has been one of prosperity to the Society. The usual work has proceeded without interruption or abatement of interest. The general meetings have been well attended, the hour of meeting—4-30 p.m. for 5—appears to be convenient to the members. The papers read at these meetings have been of high average excellence. A list of them is subjoined:—

- “Alternation of Generations,” by Dr. A. H. Burtt.
- “The Yorkshire Coast,” by the Rev. W. Johnson.
- “The Great York Glacier,” by Professor P. F. Kendall.
- “Inorganic Evolution,” by Mr. G. Cecil Fry.
- “Consonants and Character,” by the Rev. E. C. Owen.
- “The Treasurer’s House,” by Mr. Frank Green.
- “Northern Natal,” by Mr. Rudgard.

An attractive lecture programme has been duly carried through, and thanks are again due to those gentlemen who have so kindly come forward and given their services without fee, and in some cases without accepting travelling expenses.

The following is a list of the lectures:—

Thursday, January 11th.—“Photographic Revelations in the Heavens” (Illustrated by Lantern Pictures). By Professor E. E. Barnard, Director of the Yerkes Observatory, U.S.A.

Thursday, January 25th.—“ Sport and Natural History in Yorkshire ” (Illustrated by Lantern Pictures). By Oxley Grabham, M.A., M.B.O.U.

Thursday, February 8th.—“ Marine Animals.” Their preservation in their Natural Colours. (Illustrated by Lantern Preparations). By H. Clifton Sorby, LL.D., F.R.S.

Thursday, February 22nd.—“ The Discovery of the Metals ” (Illustrated by Experiments). By Bevan Lean, D.Sc., B.A.

Thursday, March 8th.—“ Antient Monuments ” (With Lantern Pictures). By Hugh Blakiston, B.A., Sec. National Trust, &c., &c.

Thursday, March 22nd.—“ Geological Photographs ” (With Lantern Illustrations). By W. Whitaker, B.A., F.R.S., President of the Geological Society.

Thursday, October 25th.—“ The First Crossing of Lang Jökull, Iceland ” (Illustrated by Lantern Pictures, &c.) By Fred. W. W. Howell, F.R.G.S.

Thursday, November 8th.—“ Natural History in Yorkshire ” (With Lantern Illustrations). By Oxley Grabham, M.A., M.B.O.U.

Thursday, November 22nd.—“ Mediæval Armour and Costumes ” (With Lantern Illustrations). By Frank Baker, C.E., F.G.S.

Thursday, December 6th.—“ Norwegian Byways ” (With Lantern Illustrations). By W. H. Macnamara.

Thursday, December 20th.—“ Some Lost and Disappearing Animals ” (With Lantern Illustrations). By C. E. Elmhirst.

Turning now to the balance sheet we find that the year under review has been financially successful. Our income from ordinary sources, £1233 18s., is very slightly in excess of last year's ; but to this must be added £100 awarded us from the late Mr. Bulmer's bequest, and a donation of £20 made by the Rev. W. Haworth, one of our Vice-Presidents. With these additions the income for the year stands at £1353. The expenses for this period are £1132, leaving the substantial

balance of £221. Considering £120 of this as of an extraordinary character, we may still point to the welcome fact that, in consequence of the great economy exercised, our income has exceeded our expenditure by over £100. And that this has been accomplished without any loss of efficiency will be evident to all who read the foregoing remarks, and the reports of the Honorary Curators that follow.

The number of new members is quite up to the average, but the losses by death and resignation have been unusually heavy. The Council would again urge upon the members the desirability of bringing the claims and advantages of the Society before the notice of newcomers, and of such of their friends as are not acquainted with its work. The payment of the interest and sinking fund on the debt and the heavy establishment charges of the Museum and Gardens (most of which are practically fixed in amount) absorb by far the greater part of the Society's income ; and it is only a small balance that is available for the scientific purposes of the Society, such as purchase and the preservation of antiquities, the maintenance and enlargement of the collections, the purchase of new books for the library and the expenses of lectures.

As a result of rigid economy during the last few years, the accounts at last shew a substantial balance on the right side : but if more members could be enrolled, funds would be available for many purposes to which the Council could most usefully devote them. It ought to be borne in mind that the claims of this Society ought not to be measured merely by the direct advantages accruing to those who become members. It has a just claim on the public inasmuch as it has preserved many objects of antiquarian and scientific interest which would otherwise have been lost to the world. With increased means such services could be indefinitely extended. Its claims rest on the same basis as those of the Minster Restoration Fund and similar objects from which subscribers do not expect immediate personal benefit.

At the time of the building of the Museum, now many years ago, excavations were made in the most promising parts of the grounds then under the control of the Society, and many facts

of archæological interest were then ascertained. But some of the most interesting parts of the Society's property have been acquired since that time, and appear never to have been systematically explored. It seemed likely that interesting results might be obtained by excavating the chancel of the Abbey church, and the work was accordingly begun towards the end of the year, and is still in progress. A full account of this exploration will be found towards the end of this Report.

By allowing the use of its premises, the Society continues to afford help to such kindred bodies as the York Medical Society, the University Extension Society, and the York and District Field Naturalists.

The Council recommends the Rev. E. S. Carter, Dr. G. A. Auden, the Rev. E. C. Owen, and Mr. T. R. Kitching as new members of Council, and the following gentlemen as honorary members: Paul Lange, W. H. Macnamara, and J. G. Goodchild, F.G.S., (of H.M. Geological Survey).



COMPARATIVE ANATOMY.—The Honorary Curator reports that the collections are in good order. Their present crowded condition renders addition almost impossible. The only present direction that improvement can take is the replacement of some specimens by better ones. The lack of storage space is a serious question, and it may be mentioned that the donation of £20 made by the Rev. W. Haworth is primarily for the purpose of providing additional accommodation of this nature.

LIBRARY.—The chief work of the year has been the publication of a printed catalogue of the books in the Society's Library. In this catalogue the books are placed under the names of the authors which are arranged alphabetically. The preparation of a subject catalogue is in contemplation. The price of the present catalogue for members of the Society is two shillings.

DEPARTMENT OF ANTIQUITIES.—There is little to report in this department, the year having been generally poor in finds of any importance. The Architect of the new N.E.R. offices, with the consent of Directors, kindly undertook to watch the excavations on our behalf, but the objects found have so far been of the ordinary type.

Through the kindness of Mr. Selke, an interesting mediæval Jar, found in the river sand at Tadcaster, was presented to the Society by Mr. Arthur Rogers. This jar is of large size, and is furnished with a hole evidently intended for a tap or spigot: it bears a seal impressed with a cross which points to its probably having belonged to some religious house.

In the latter part of the year the Council decided to commence excavations in the chancel of the Abbey Church of S. Mary, and appointed a small Committee to superintend the work, which is still in progress.

DEPARTMENTAL REPORT ON BOTANY.—The specimens of British Rubi in the Herbarium are few in number and inferior in quality, excepting those collected by Mr. H. Fisher in 1900.

The Dalton Collection contains three specimens of this genus, and the Rubi enumerated in the Hailstone Catalogue of British plants are, I regret to say, in the National Collection at Kew.

Since my last report (1899) the Rev. William Moyle Rogers, F.L.S. has published (through Duckworth and Co., of London) a Handbook of British Rubi. The author kindly allowed me to submit some Rubi of my collecting in 1885, and these will be found on pp. 15—18, with the initials W.M.R. attached to the author's remarks.

I beg to tender my thanks to the Rev. W. Moyle Rogers for his courtesy in correcting and naming the Rubi in your Herbarium; also to Mr. Arthur Bennett, F.L.S., Croydon, Mr. William Whitwell, F.L.S., London, and Mr. H. Fisher, Knaresborough, for their kindness in forwarding specimens to the Society and for assistance which they have given to me.

GEOLOGY.—The Honorary Curator reports that no opportunity of purchasing fossils required for the Yorkshire Collection has occurred during the past year. The income derived from the Reed Fund has again been spent in the purchase and binding of books. Donations of fossils have been received from Mr. Cotsworth and Dr. McLeod.

ORNITHOLOGY.—The re-arrangement of the Bird Collections has been pushed forward as quickly as circumstances would allow, and the cases in the room formerly occupied by the Foreign Bird Collection, as well as the gallery overhead, are now being filled with British species. The foreign birds being in a deplorable condition have been weeded out, and the best specimens have been cleaned and put temporarily into the Rudston Room where they will be grouped according to their geographical distribution. In the work of cleaning referred to above, we have to thank Mr. Oxley Grabham, of Thornton Dale, for many hours of valuable help. Among the presentations of the past year, one of the most noteworthy is a hybrid crow from North Wales (*corvus corvus* x *corvus cornix*).

MINERALOGY.—During the past year the additions made to the collections have been (i) a specimen of Calcite from the Scordale Barytes Mine, presented by Mr. J. Backhouse; (ii) a small collection of rocks and minerals got together by the late Professor Piazzzi Smyth, and purchased by the Society. The collections are in good order.

METEOROLOGY.—*Statistics of Station*: Longitude $1^{\circ} 5' \text{ W.}$; Latitude $53^{\circ} 57' \text{ N.}$; height above mean sea level, 56 feet. 1900 has been a typical year in all respects.

Temperature showed a rather greater range than the previous year, and the mean annual temperature is slightly lower, being 48.6 as against 48.9. The lowest temperature was recorded on February 13th, when 12° F. was registered, and the highest on July 11th, when the reading was 87° F. , the range for the year being thus increased by 3° F. April and June showed higher readings than usual. The maximum readings in the

months of August, September, and October, were lower than for 1899.

A Mean Pressure of 29·885 inches has been recorded as against 29·949 inches for 1899, February and November being lowest with 29·546 and 29·877 inches respectively, and September highest with 30·081 inches. The extreme range of pressure is 2·236 inches as against 2·385 inches for 1899.

Rain or Snow (0·005 inches or over) fell on 193 days or 19 above the average. The total fall of 25·76 inches being 3·36 inches more than 1898. The highest fall was on October 26th, when 1·31 inches fell. The second half of the year, except September, was marked by a heavier rainfall and a higher temperature than usual. May, last year the wettest month, was this year the driest, and although August held its place as the wettest month of all, it was closely followed by February, October, January, indeed on the comparison of a 30 day month February would be the rainiest month. The cumulative totals since 1841 are now:—August 163·00 inches, October 161·24 inches, July 153·71 inches.

THE PHOTOGRAPHIC SECTION.—The average attendance and the interest displayed in the meetings of the year are very encouraging compared to the two or three previous years. The advantages of joining the Photographic Section deserve to be more widely known to many members and associates of the general Society who practise photography without belonging to any Photographic Society. The Section now does not depend only upon the work of its own members for furnishing objects of interest at its meetings, but enjoys the further substantial advantage of being one of the affiliated Photographic Societies, so that the work in the shape of prints, transparencies, and papers, contributed by the numerous other Societies that belong to the Affiliated Societies, is generally available at the Section's meetings. The Lantern night in the Museum Theatre, given in the spring by a few members of the Photographic Section before the Philosophical Society, always seems to be popular, and the good audiences give proof of the interest prevalent in its work.

The subscription to the Photographic Section remains as before, namely, 2/6 per annum for those who are already members or associates (or who belong to a member's family), and 5/- per annum for those who are not thus connected with the Parent Society. All members of the Photographic Section have access to the Section's dark room in the basement of the Museum. The income of the Section continues to be amply sufficient for its requirements.



THE TREASURER'S ACCOUNT IN CONNECTION WITH THE FUND FOUNDED BY THE LATE
WM. REED, ESQ., FOR SPECIFIC PURPOSES.

Dr.	INCOME.	EXPENDITURE.	Cr.
	£ s. d.		£ s. d.
Interest on £600 York Corporation 3 per cent. Redeem- able Stock, less Income Tax	17 5 0	Books and Binding	18 10 0
Interest on £50 placed on deposit at York City and County Bank	1 5 0		
	£18 10 0		£18 10 0

BALANCE SHEET.

	£ s. d.		£ s. d.
Amount of Fund on 31st December, 1900	687 19 2	Amount invested in York Corporation 3 per cent. Redeemable Stock	600 0 0
		Amount placed on Deposit at York City and County Bank	50 0 0
		Cash in hand	37 19 2
	£687 19 2		£687 19 2

METEOROLOGICAL STATION, YORK.—THE MUSEUM.

Longitude 1° 5' W., Latitude 53° 57' N. Height above Mean Sea Level 56 ft. Gravity Correction + .024 in.

1900.	Mean Pressure at 32° Fahrenheit at M.S. Level	Air Temperature.						Humidity.											
		Means of		Absolute Min. and Max.		Depn. of Wet Bulb.		Tension of Vapour.		Percentage.									
		9 a.m.	9 p.m.	Mean.	Min.	Day.	Max.	Day.	9 a.m.	9 p.m.	Mean.	9 a.m.	9 p.m.	Mean.					
		°	°	°	°		°		°	in.	in.	°	°	°					
Jan.	ins. 29·861	38·0	38·9	38·5	34·4	43·3	26·0	28th	52·0	22, 23	1·3	1·2	1·3	·203	·214	·209	89	91	90
Feb.	29·546	34·2	35·1	34·7	30·1	40·8	12·0	13th	57·0	23rd	0·9	1·1	1·0	·180	·183	·182	90	89	90
Mar.	30·039	38·2	38·0	38·1	33·5	44·6	24·0	18th	54·0	31st	2·2	2·1	2·2	·188	·188	·188	82	82	82
April	29·918	46·6	46·3	46·5	38·7	56·0	28·0	2nd	76·0	21st	4·0	3·0	3·5	·229	·247	·238	73	79	76
May	·965	52·3	48·9	50·6	42·2	58·1	34·0	13th	68·0	27th	4·6	3·4	4·0	·278	·267	·273	71	78	75
June	·904	60·7	56·7	58·7	50·7	68·4	44·0	3, 5, 8	84·0	12th	5·0	3·4	4·2	·379	·363	·371	72	79	76
July	·968	65·9	62·1	64·0	55·8	73·4	41·0	8th	87·0	11th	6·0	4·1	5·1	·433	·426	·430	69	76	73
Aug.	29·945	60·0	57·5	58·8	52·4	67·0	44·0	29th	77·0	13th	3·5	2·8	3·2	·409	·392	·401	79	82	81
Sept.	30·081	56·8	55·1	56·0	48·7	61·3	39·0	20th	71·0	12th	3·0	2·6	2·8	·375	·361	·368	81	83	82
Oct.	29·877	49·1	47·8	48·5	42·5	56·5	32·0	16th	70·0	9th	2·4	1·8	2·1	·290	·288	·289	83	87	85
Nov.	·722	44·3	44·7	44·5	40·7	48·3	30·0	11th	60·0	1st	1·5	1·3	1·4	·258	·266	·262	88	90	89
Dec.	29·793	44·4	44·4	44·4	40·3	49·4	27·0	23rd	58·0	20th	1·7	1·5	1·6	·255	·259	·257	88	89	89
Year	29·885	49·2	48·0	48·6	42·5	55·8	—	—	—	—	3·0	2·4	2·7	·290	·288	·289	80·4	83·8	82·1

STATION, YORK.—THE MUSEUM.

Heights above Ground :—Barometer, 3 feet ; Thermometers, 4 feet ; Rain-gauge, 1 foot.

1900.	Amount of Cloud.			Rainfall.			Weather, No. of Days of							Wind, No. of Observations of								
	9 a.m.	9 p.m.	Mean	Total.	Max.	Day.	Rain.	Snow.	Hail.	Thunder	Clear Sky.	Over-cast.	Gale.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
Jan.	7·8	6·4	7·1	ins. 3·32	ins. 1·13	6th	24	3	0	0	2	13	0	11	2	1	5	20	6	10	6	1
Feb.	6·7	5·8	6·3	3·64	·73	26th	21	8	0	0	6	12	0	16	7	4	6	9	5	4	4	1
Mar.	6·4	5·5	6·0	0·41	·14	18th	12	4	1	0	3	8	0	27	7	9	6	1	0	1	11	0
April	5·7	5·1	5·4	1·09	·28	3rd	11	0	0	0	5	5	5	6	0	5	6	10	7	20	6	0
May	6·8	6·1	6·5	1·12	·40	8th	11	0	0	1	2	8	0	20	7	2	1	12	7	10	3	0
June	5·9	6·6	6·3	1·61	·36	24th	17	0	1	5	3	9	0	13	5	3	1	13	8	14	3	0
July	5·5	5·2	5·4	1·34	·33	3rd	15	0	0	6	2	3	0	3	6	1	2	5	6	35	4	0
Aug.	7·0	6·4	6·7	3·68	1·22	3rd	13	0	0	2	2	11	0	15	5	4	5	14	2	13	4	0
Sept.	6·1	3·9	5·0	0·86	·40	7th	8	0	0	1	5	6	0	4	0	0	6	12	15	19	3	1
Oct.	5·8	5·9	5·9	3·51	1·31	26th	22	0	0	1	2	7	0	7	0	0	2	20	8	11	14	0
Nov.	7·4	7·3	7·4	2·59	·34	3rd	23	0	0	0	2	18	0	10	5	7	11	17	4	3	3	0
Dec.	7·1	6·4	6·8	2·59	·60	5th	16	0	0	0	4	14	0	1	1	5	3	27	9	14	2	0
Year	6·5	5·9	6·2	25·76	—	—	193	15	2	16	38	114	5	133	45	41	54	160	77	154	63	3

RIVER HEIGHT RECORDS REGISTERED BY THE AUTOMATIC RECORDER
AT THE GUILDHALL, YORK, 1900.

Date.	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.	
	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.
1	1 a.m.	ft. in. 5 9	noon	ft. in. 1 3	1 a.m.	ft. in. 11 5	noon	ft. in. 1 1	noon	ft. in. 0 7	9 a.m.	ft. in. 0 2
2	12 p.m.	5 6	1 a.m.	1 3	"	9 10	1 a.m.	1 1	"	0 7	"	0 2
3	3 p.m.	7 10	"	0 10	"	7 0	noon	0 10	"	0 7	"	0 3
4	2 a.m.	7 4	noon	0 6	"	4 6	12 p.m.	1 2	"	0 7	"	0 3
5	"	4 10	"	0 6	"	3 1	4 p.m.	1 5	9 a.m.	0 11	"	S. L.
6	3 p.m.	2 3	3 a.m.	0 6	"	2 2	1 a.m.	1 1	noon	0 8	"	S. L.
7	12 p.m.	5 11	6 p.m.	S. L.	"	1 11	"	1 2	"	0 6	"	S. L.
8	5 a.m.	6 3	1 a.m.	"	"	1 3	noon	0 9	6 p.m.	0 10	"	0 1
9	6 p.m.	5 3	"	"	"	1 2	1 a.m.	0 9	1 a.m.	0 11	"	0 1
10	1 a.m.	5 0	"	"	"	1 0	noon	0 7	noon	1 2	"	S. L.
11	"	2 4	"	"	noon	0 10	12 p.m.	0 9	1 a.m.	1 2	"	S. L.
12	"	1 6	"	"	12 p.m.	0 11	2 p.m.	2 9	noon	0 10	"	0 2
13	12 p.m.	1 6	"	"	"	1 11	9 p.m.	6 8	"	0 10	"	0 1
14	noon	1 6	"	"	6 a.m.	2 0	1 a.m.	6 6	"	0 7	"	0 1
15	12 p.m.	1 6	"	"	12 p.m.	1 6	"	2 3	"	0 7	"	0 2
16	2 p.m.	3 3	12 p.m.	0 9	6 p.m.	1 10	noon	3 0	"	0 7	"	0 5
17	1 a.m.	2 4	"	6 6	1 a.m.	1 8	2 p.m.	2 8	"	0 7	"	0 3
18	4 p.m.	2 9	3 p.m.	7 11	"	0 8	1 a.m.	2 1	"	0 7	"	S. L.
19	1 a.m.	1 9	12 p.m.	9 2	"	0 5	4 p.m.	1 5	"	0 1	"	0 1
20	3 p.m.	6 6	6 p.m.	9 9	"	0 2	1 a.m.	1 3	"	water drawn off.	"	0 1
21	1 a.m.	5 4	1 a.m.	9 8	noon	0 2	9 a.m.	1 0	"	"	"	S. L.
22	4 p.m.	3 11	"	6 8	"	0 4	noon	0 10	"	"	"	S. L.
23	1 p.m.	4 0	12 p.m.	7 0	6 p.m.	1 1	"	0 9	"	"	"	0 2
24	1 a.m.	3 5	"	9 5	2 a.m.	1 2	"	0 10	9 a.m.	1 0	"	0 3
25	"	2 0	4 p.m.	9 9	1 a.m.	0 7	"	0 10	"	0 4	"	0 4
26	"	1 10	1 a.m.	9 7	noon	0 3	"	0 11	"	0 4	11 a.m.	1 4
27	12 p.m.	1 5	12 p.m.	11 4	"	S. L.	"	0 11	"	0 4	1 a.m.	0 9
28	10 a.m.	1 1	4 p.m.	11 8	6 p.m.	S. L.	"	0 10	"	0 3	"	0 6
29	1 a.m.	1 1	"	"	1 a.m.	1 6	"	0 10	"	0 3	noon	0 7
30	12 p.m.	1 1	"	"	"	1 6	1 a.m.	0 9	"	0 3	"	0 3
31	"	1 4	"	"	"	1 4	"	"	"	0 3	"	"

RIVER HEIGHT RECORDS.—Continued.

Date.	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.	
	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.
1	noon	ft. in. 0	9 p.m.	ft. in. 0	9 a.m.	ft. in. 0	water drawn off	ft. in. 4	1 a.m.	ft. in. 1	1 a.m.	ft. in. 3
2	9 a.m.	1	"	S.L.	noon	0	"	9	"	1	12 p.m.	2
3	6 a.m.	0	noon	S.L.	9 a.m.	0	9 a.m.	7	"	1	noon	4
4	noon	0	6 p.m.	3	9 a.m.	S.L.	"	0	12 p.m.	1	11 p.m.	4
5	"	0	1 a.m.	8	"	0	"	1	noon	2	1 a.m.	7
6	9 a.m.	0	noon	3	"	0	"	4	10 a.m.	1	12 p.m.	5
7	"	0	6 p.m.	0	"	0	noon	6	12 p.m.	2	10 p.m.	3
8	noon	0	9 a.m.	11	"	0	9 a.m.	8	noon	2	1 a.m.	3
9	9 a.m.	0	"	7	noon	below 1	"	2	12 p.m.	2	12 p.m.	3
10	noon	S.L.	"	6	9 a.m.	1	"	4	2 p.m.	3	1 a.m.	3
11	"	S.L.	"	2	"	0	"	3	7 a.m.	3	1 a.m.	1
12	"	S.L.	1 a.m.	1	"	above 0	"	0	1 a.m.	2	9 p.m.	3
13	"	S.L.	9 a.m.	9	"	1	"	10	10 a.m.	3	1 a.m.	3
14	"	S.L.	"	7	"	0	6 p.m.	7	1 a.m.	2	"	2
15	"	0	"	7	"	0	1 a.m.	2	12 p.m.	2	12 p.m.	5
16	"	S.L.	"	7	noon	0	"	1	3 p.m.	4	"	2
17	"	S.L.	"	6	9 a.m.	0	3 p.m.	S.L.	1 a.m.	3	"	1
18	"	0	"	5	"	0	12 p.m.	9	3 a.m.	3	"	0
19	"	0	noon	9	"	S.L.	1 a.m.	0	3 p.m.	1	noon	0
20	"	0	12 p.m.	6	"	S.L.	"	0	1 a.m.	1	12 p.m.	1
21	"	0	noon	7	"	0	noon	3	"	1	2 p.m.	3
22	"	0	9 a.m.	4	"	0	"	0	1 a.m.	0	1 a.m.	3
23	"	0	12 p.m.	3	noon	0	"	1	noon	0	"	1
24	"	0	noon	9	9 a.m.	0	"	S.L.	"	0	"	0
25	"	0	9 a.m.	1	"	0	"	"	6 a.m.	0	12 p.m.	0
26	"	0	4 p.m.	1	"	0	12 p.m.	0	noon	0	2 p.m.	1
27	"	S.L.	9 a.m.	4	6 p.m.	1	"	9	6 p.m.	1	4 a.m.	1
28	"	0	"	8	9 a.m.	0	8 a.m.	6	12 p.m.	2	12 p.m.	2
29	7 p.m.	0	"	6	"	0	1 a.m.	3	8 a.m.	2	4 p.m.	4
30	9 a.m.	0	"	4	"	0	3 a.m.	4	12 p.m.	5	1 a.m.	3
31	noon	0	"	4	"	0	1 a.m.	2	6 a.m.	5	8 p.m.	5

HOUSE FLOODS FROM RETURNS TO THE CITY SURVEYOR.
COMPARATIVE TABLE, 1900.

Date.	Nidd at Pateley Bridge.		Ure at Middleham Bridge.		Swale at Richmond.	
	Hour.	Height	Hour.	Height	Hour.	Height
		ft. in.		ft. in.		ft. in.
Jan. 2			4 p.m.	6 10	4-0 p.m.	3 0
" 9			8 a.m.	4 0		
" 19					6-30 p.m.	3 6
" 20			4 a.m.	10 0		
" 22			4 p.m.	4 0		
Feb. 17			"	4 2		
" 19			"	4 2		
" 23			"	5 0	7-30 p.m.	3 6
" 24			7 a.m.	5 6		
" 26	10 p.m.	5 6	4 p.m.	5 0		
" 27			"	5 0		
April 12			7 a.m.	3 0		
" 13			1 a.m.	9 0		
" 16			1 p.m.	3 0		
June 12					8 p.m.	3 0
Aug. 3			5.45 p.m.	9 0	5 p.m.	5 6
" 4			7 a.m.	5 0		
" 6			6 a.m.	3 0		
" 7			"	4 0		
Sept. 27			"	6 0		
Oct. 2			11 a.m.	5 0		
" 5			"	5 0		
" 6			7 a.m.	5 0	7 p.m.	3 0
" 7			9.30 a.m.	12 0	7 a.m.	3 0
" 9			4 p.m.	4 0	7 p.m.	5 0
" 10			6 a.m.	4 0		
" 29			"	4 0		
Nov. 9			7 a.m.	3 0		
" 15			4 p.m.	5 9		
" 29			11 a.m.	4 0		
Dec. 4			7 a.m.	6 0		
" 6			"	6 0		
" 9			"	5 0		
" 15			11 a.m.	7 2		
" 20			4 p.m.	6 7		
" 28			11 a.m.	4 0		

YORK—THE MUSEUM.

1900.	Highest Barometer.	Lowest Barometer.
January	30·439 11th, 9 a.m.	29·332 3rd, 9 a.m.
February	30·142 28th, 9 p.m.	28·425 19th, 9 p.m.
March	30·661 13th, 9 p.m.	29·246 19th, 9 a.m.
April	30·546 19th, 9 a.m.	29·170 4th, 9 a.m.
May	30·392 31st, 9 p.m.	29·321 3rd, 9 a.m.
June	30·395 1st, 9 a.m.	29·508 25th, 9 a.m.
July	30·261 8th, 9 a.m.	29·498 1st, 9 a.m.
August	30·421 29th, 9 a.m.	29·022 6th, 9 p.m.
September	30·525 13th, 9 a.m.	29·439 27th, 9 a.m.
October	30·565 22nd, 9 a.m.	29·011 26th, 9 p.m.
November	30·502 18th, 9 p.m.	29·157 15th, 9 p.m.
December	30·365 16th 9 p.m.	28·623 28th, 9 a.m.
Year	30·661 Mar. 13th, 9 p.m.	28·425 Feb. 19th, 9 p.m.

THE TREASURER IN ACCOUNT WITH THE YORKSHIRE

Previous
Year.

Dr.

INCOME.

£ s. d. £ s. d.

Subscriptions :—

Town Members	...	...	...	...	...	657	0	0
Country Members	...	...	...	...	...	15	0	0
Lady Subscribers	...	...	...	...	...	60	10	0
Associates	...	...	...	...	...	7	10	0
Arrears received	...	...	...	...	...	31	5	0
For Keys of Gates	...	...	...	...	...	63	6	0

828

834 11 0

Donations and Bequests :—

York University Extension Society, Donation	...	...	...	...	...	2	2	0
The Rev. W. Haworth, Donation	...	...	...	...	...	20	0	0
Executors of the late T. P. Bulmer, Bequest	...	...	...	...	...	100	0	0

2

122 2 0

Rents :—

Major Allenby, St. Mary's Lodge	...	...	...	...	...	65	0	0
Mr. Hill, Marygate Baths	...	...	...	...	...	40	0	0
York Amateur Rowing Club	...	...	...	...	...	5	0	0
York and District Field Naturalist's Society, less £2 paid to Attendant	...	...	...	...	...	1	0	0
York Waterworks Company, for Shed	...	...	...	...	...	5	0	0
Do. for Windows	...	...	...	...	...	0	1	0
Corporation of York	...	...	...	...	...	2	0	0
Yorkshire School for the Blind	...	...	...	...	...	0	1	0
National Telephone Company	...	...	...	...	...	1	0	0

114

119 2 0

7

Hire of Tent and Tables ... Nil.

Whitsuntide Admission Fees ... 14 0 2

Less : Attendants and Police ... 4 10 6

8

9 9 8

Meteorological Department :

Subscriptions towards cost of Anemometer	...	...	...	...	...	12	1	6
5 Sale of Catalogues	...	...	...	...	...	7	4	6
2 Sale of Photographs	...	...	...	...	...	2	0	6
Sale of Labels	...	...	...	...	...	0	13	3
4 Bank Interest	...	...	...	...	...	5	12	6
221 Gate Money	...	...	...	...	...	212	12	2
4 Tennis Courts	...	...	...	...	...	2	1	0
Interest on £918 8s. 9d. India 3 % Stock, less Income Tax	...	...	...	...	...	26	8	2

1262

£1353 18 3

143 Balance in hands of the Treasurer, 31st December, 1900

... 365 11 4

£365 11 4

Examined and found correct,

J. A. CUNNINGHAME.

EDWIN GRAY, *Honorary Treasurer.*

PHILOSOPHICAL SOCIETY FOR YEAR ENDING 31ST DEC., 1900.

Previous
Year.

EXPENDITURE.

		£	s.	d.	£	s.	d.	Cr.	£	s.	d.
1	Crown Rent							1	0	0	
19	Corporation Rent							19	5	5	
	<i>Rates and Taxes:—</i> Parishes of St. Wilfrid, St. Olave, and St. Michael-le-Belfrey ...						29	12	2		
	Waterworks Company's Rate						3	12	1		
	Gardener's Licenses						2	5	0		
	Receipt and Cheque Books Stamping... ..						1	13	2		
25								37	2	5	
	Insurance							7	5	0	
	<i>Salaries and Wages:—</i>										
	Mr. Platnauer						150	0	0		
	Mr. Fielden						60	0	0		
	Miss Baines						41	12	0		
	Mr. Guy						30	0	0		
	<i>Attendants at Museum and Hospitium, viz.:—</i>										
	Attendant at Museum	69	19	0							
	Female Attendant at Museum... ..	31	4	0							
	Female Attendant at Hospitium	32	10	0							
							133	13	0		
	Gardeners, including temporary labour and extra duty at gates						108	1	6		
524								523	6	6	
198	*Yorkshire Insurance Company, Annuity ...							197	13	3	
	<i>General Repairs and Expenses:—</i> Museum and Hospitium, Additions, Repairs, & Expenses						38	13	2		
36	Gardens: Repairs to Fountains	28	4	11							
	General Additions, Repairs, and Expenses	26	17	4							
52							55	2	3		
84	<i>Estate: General Repairs</i>						12	11	3		
173								106	6	8	
12	Outdoor Entertainments							3	1	5	
31	Library—Books and Binding							7	6	11	
42	Lectures							43	8	8	
5	Printing and Stationery							6	3	7	
20	Printing Reports and Postage thereof							16	4	11	
	Printing Communications to Members and Postage of same							8	7	3	
10	Printing Catalogue of Library							26	18	6	
	<i>Gas, Coal, and Coke:—</i>										
	Museum						30	17	2		
	Gardens						14	5	8		
	Estate						16	7	6		
55								61	10	4	
23	Ornithological Department							25	17	8	
26	Antiquarian Department							8	14	8	
	Meteorological Department							17	0	5	
	Preparing Photographs for Sale							0	12	7	
8	Sundry Postages							7	12	10	
3	Sundries, including carriage of Parcels... ..							1	8	11	
20	New Keys for Garden Gates, & Repairs to Gates							4	5	0	
	Tent							1	7	9	
1275								1132	0	8	
	Excess of Income over Expenditure							221	17	7	
								£1353	18	3	
156	Balance in hands of the Treasurer, 31st December, 1899							143	13	9	
	Excess of Income over Expenditure, 1900							221	17	7	
								£365	11	4	

*Annuity of £201 8s. 0d. payable until October, 1914, inclusive, created to repay an advance of £3500 made by the Yorkshire Insurance Co.

Principal repaid 1357 4 7
 „ outstanding 2142 15 5

£3500 0 0

NEW MEMBERS ELECTED, 1900.

Anderson, R. W., 37, *St. Paul's Square*.

Bell, Wm., *Blossom Street House*.

Bellerby, Mrs., 20, *Ogleforth*.

Boston, Wm., 2, *Queen Anne's Road*.

Brode, Rev. T. A., 3, *Penley's Grove Street*.

Brown Arthur, *Friar's Terrace*.

Brown, Colonel, 31, *St. Mary's*.

Carr, A. Ayer, 6, *Precentor's Court*.

Catterall, Miss, *Mount Vale House*.

Cuthbertson, H., *Red House, Marygate*.

Dufton, Arthur, M.A., "*Kingsbury*," *Clifton*.

Faber, Geo. D., M.P., *Townshend House, The Mount*.

Foster, Miss E. B., *Minster Yard*.

Fryer, J. P., 27, *Queen Anne's Road*.

Harrowell, Rev. T. B., 19, *St. Mary's*.

Hodgson, Miss, 6, *St. Mary's*.

Ingham, Wm., 47, *Haxby Road*.

Leetham, Herbert, *Beech House, The Mount*.

Linfoot, George, *King's Square*.

Lund, Albert, 32, *St. Olave's Road*.

Metcalf, Dr., *St. Leonard's*.

Milligan, Mrs., 5, *St. Peter's Grove*.

Nelson, John, *Petergate*.

Noble, T. Tertius, *Minster Yard*.

Noyes, Colonel, *Club Chambers*.

Owen, Rev. E. C., M.A., *St. Peter's School*.

Page, Chas. S., 24, *St. Olave's Road*.

Purnell, E. W., (the Rt. Hon. the Lord Mayor) *Coney Street*.

Raine, Rev. J., *Snainton*.

Rawling F., *Swinegate*.

Rieveley, J. W., 17, *Colliergate*.
 Rutherford, Andrew, *Markham Street*.
 Saunders, Col. W. Egerton, 35, *St. Mary's*.
 Simpson, J. H., 36, *St. Paul's Square*.
 Slack, S. R., B.A., *Commercial College*.
 Smith, Dr. E. M., *Whitwell House, Scarcroft Road*.
 Smith, Thos., 16, *St. Saviourgate*.
 Telford, H. R., 27, *Grosvenor Terrace*.
 Trundle, Rev. G., *St. Martin's Vicarage*.
 Wood, Mrs., 1, *St. Mary's*
 Woolford, Geo., *Thomas' Hotel*.

NEW LADY SUBSCRIBERS.

Mrs. C. Anderson, 44, *Queen Anne's Road*.
 Miss Byron, 9, *Claremont Terrace*.
 Mrs. Marter, 2, *Clifton Terrace*.
 Mrs. Pearson, *Glentworth, The Mount*.
 Miss Sharphouse, 7, *Sandringham Terrace*.

NEW ASSOCIATE.

Edwd. Bushell, *Mount House*.



DONATIONS TO MUSEUM AND LIBRARY.

LIBRARY.

BOOKS PRESENTED.

DONORS.

The Quarterly Journal of the Geological Society of London, Vol. lvi. 1900.	} The Society.
The Report of the British Association for the Advancement of Science, Dover, 1899.	} The Association.
Transactions of the Zoological Society of London, Vol. xv. Part 5. Proceedings Part 4, 1899; Parts 1, 2, 3, 1900.	} The Society.
Monograph of Christmas Island, by C. W. Andrews, B.A.; Catalogue of Cretaceous Bryozoa, Vol. 4; Lepidoptera phalœnæ, Vol ii. and plates.	} The Trustees of the British Museum.
Calendar of State Papers, 1603—1610, 1629—1631, 1640—1641, 1641—1643, 1644, 1644—1645, 1645—1647, 7 Vols. Icelandic Sagas, Vols i., ii., iii., iv., ; Saxon Leechdoms, &c., Vols. i., ii., ; Political Poems and Songs, Vols. i., ii., ; Chronicles, Stephen, Henry II., and Richard I., Vols. i., ii., iii.; Matth Paris Chronica Majora, Vols. i., ii., iii., iv., v., vi., vii.; Historians of the Church of York and its Archbishops, Vols. i., ii., iii.	} Controller of H. M. Stationary Office.
Transactions of the Royal Society of Edinburgh, Vol. xxxix., Parts 2, 3, 4. Proceedings, Vol. xxii.	} The Society.

- Memoirs of the Geological Survey of India, "Palæontologia Indica" Series ix., Vol. ii., Part 2; Series xv., Vol. i., Part 2; Series xv., Vol. iii., Parts 1, 2; Memoirs, Vol. xviii., Part 2; Vol. xxxix. and xxx., Part 1; General Report of the work carried on by the Geological Survey, 1899—1900. } The Indian Survey.
- Reports of the United States Geological Survey, 19th Report, Parts 2, 3, 5, ; 20th Report, Parts 1 and 6. } The Survey.
- Memoirs and Proceedings of the Manchester Literary and Philosophical Society, Vol xliv., Nos. 1, 2, 3, 4, 5. } The Society.
- Annual Report of the Smithsonian Institution for 1897. } The Institution.
- The Bulletin of the American Geographical Society, Vol. xxxii., Nos. 1, 2, 3, 4. } The Society.
- The Proceedings of the Geologists' Association, Vol xvi., Parts } The Association.
- The Transactions of the Leicester Literary and Philosophical Society, Vol. v., Parts 3, 5, 6, 7, 9. } The Society.
- An Account of the Crustacea of Norway, Vol. iii., Nos. 1, 2, 3, 5, 6, 7, 8, 9, 10, By Prof. G. O. Sars. } The Author.
- The Journal of the Manchester Geographical Society, Vol. xv., Nos. 10-12; Vol. xvi., Nos. 1—6; Supplement to Vol. xi., Nos. 9—12. } The Society.
- Memoirs of the Russian Geological Society, Vol. vii., Nos. 3, 4; Vol. ix., No. 5; Vol. xv., No. 3; Vol. xx., No. 20; Bulletin Vol. xviii., Nos. 3—10. } The Society.
- Proceedings of the Imperial Mineralogical Society of Russia, 1899 and 1900. } The Society.

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| Proceedings of the Naturalists' Society of Russia, Vol. xvi. | } | The Society. |
| The Norweigan North Atlantic Expedition, Vol. xxvii., Zoology & Polyzoa. | } | The Committee. |
| Proceedings of the Norwegian Meteorological Institution, 1896—7. | } | The Institution. |
| Memoirs of the New York Academy of Sciences, Vol. ii., Part 1; Vol. ix., Nos. 6, 7, 8; Vol. x., Nos. 2, 3; Vol. xi., Parts 2, 3; Vols. xiv. and xv. | } | The Academy. |
| Transactions of the Yorkshire Naturalists' Union, Part 22. | } | The Union. |
| Proceedings of the Rochester Academy of Science, Vol. iii. | } | The Academy. |
| Transactions of the Academy of Science of St. Louis, Vol. ix., Nos. 6, 8, 9; Vol. x. Nos. 1—8. | } | The Academy. |
| A Descriptive Catalogue of the specimens in the Mortimer Museum at Driffeld. | } | J. R. Mortimer. |
| Records of the Geological Survey of New South Wales, Vol. vi., Part 4; Mineral resources, No. 7; Report on the Hillgrove Gold Field. | } | The Survey. |
| The Proceedings and Transactions of the Nova Scotian Institute of Science, Vol x., Part 1. | } | The Institution. |
| Indian Meteorological Memoirs, Vol. x., Parts 3 and 4; Report of the International Committee, St. Petersburg, 1899; Report of the Council for the year ending 31st March, 1900, and Weekly Weather Reports. | } | The Meteorological Society. |
| Transactions of the Natural History Society of Northumberland, Durham, and Newcastle-upon-Tyne, Vol. xiii., Part 3. | } | The Society. |

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| Bulletin of the University of Kansas,
Vol. viii, No. 4 ; Vol. ix., No. 2. | } | The University. |
| Geological Survey of Canada, contribu-
tions to Canadian Palæontology, Vol.
iv., Part 1. | } | The Survey. |
| Report and Proceedings of the Belfast
Natural History and Philosophical
Society for 1898—9. | } | The Society. |
| Transactions of the Hull Scientific and
Field Naturalists' Club for 1899,
Vol. i., Nos. 2, 3. | } | The Club. |
| Proceedings of the Bath Natural History
and Antiquarian Field Club, Vol. ix.,
No. 3. | } | The Club. |
| The 11th Report of the Missouri
Botanical Garden, 1900. | } | The Council. |
| The Journal of the Northamptonshire
Natural History Society, Nos. 77, 78,
79. | } | The Society. |
| Transactions and Proceedings of the
Perthshire Society of Natural Science,
Vol. iii., Part 2. | } | The Society. |
| Bergen Museums Aarbog for 1899 & 1900 | | The Council. |
| Annales del Museo nacional de Monte-
video, Vol. ii., Nos. 12, 15, 16 ; Vol.
iii., No. 13, 14. | } | The Society. |
| Proceedings of the British Naturalists'
Society, Vol. ix., Part 1. | } | The Society. |
| Mitteilungen des Vereins für Erdkunde
zu Leipzig, 1899. | } | The Society. |
| Bulletin of the Geological Institution
of the University of Upsala, Vol. iv.,
Part 2, No. 8. | } | The Institution. |
| University of Toronto Studies, Nos. 2,
3, 1899, and 1, 2, 1900. Scientific
Series, No. 6. | } | The University. |

Annual Report of the Leeds Literary and Philosophical Society.	} The Society.
34th Annual Report of the Woodward- ian Museums and Lecture Room Syndicate.	} The Council.

GEOLOGICAL DEPARTMENT.

A Fossil Plant from the Coal Measures.	Mr. M. B. Cotsworth.
A Fossil Sea Urchin.	Dr. McLeod.

ANTIQUITIES.

Fragments of a large 16th century Pot dug up in York.	} Mr. Wright.
A very fine Mediæval Jug, yellow glaze, probably 15th century, found 14 feet deep in river sand at Tadcaster.	} Mr. Arthur Rogers.
A small Bronze Bust.	Mr. Chapman.
Facsimile of Early American Paper Money.	} Miss Moore.

ZOOLOGY & COMPARATIVE ANATOMY.

A small collection of Foreign Butterflies.	Mr. S. E. Woods.
Supposed Hybrid Crow shot on the coast of Merioneth, North Wales; Skins of Red Throated Diver, Fork Tailed Petrel, Green Sandpiper, Little Auk, Water Rail, Crossbill, Short Eared Owl and Arctic Tern from Spurn Point, Pair of Nutcrackers. Goldfinches, Tree Pipits, Red backed Shrikes, Gold vented Thrushes, Bull- finches, and one Siskin.	} Mr. J. Backhouse.

BOTANY.

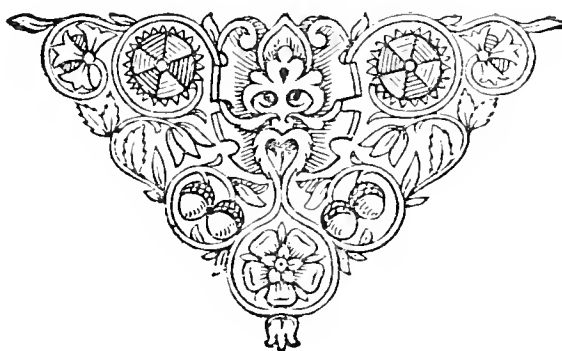
- Ophrys muscifera, Huds. from Saltburn, N.E. Yorks ; Specimens of Rubi from Knaresboro'. } Mr. H. Fisher.
- Ophrys aranifera, Huds. and Silene nutans, Linn. from Kent ; Lastræa cristata, Presl. and other specimens. } Mr. A. Bennett.
- Simethis bicolor, Kunth. from Bournemouth ; Lamprothamnus alopecuroides. A.Br. and other specimens. } Mr. W. Whitwell.

MINERALOGY.

- Specimen of Calcite from the Scordale Barytes Mines. } Mr. J. Backhouse.

MISCELLANEOUS.

- Two framed Charts of Spectra by Piazzì Smyth. } Mr. M. B. Cotsworth.



PRELIMINARY CATALOGUE
OF THE
BRITISH BIRD COLLECTIONS

IN THE POSSESSION OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,

BY THE
HON. CURATOR, JAMES BACKHOUSE, F.L.S., M.B.O.U., F.Z.S., &c.

PART II.

Order, PASSERES. Sub-Order, OSCINES.
Section, Oscines Dentirostres.
Family, Motacillidæ. Genus Motacilla.

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Family MOTACILLIDÆ.			
Genus Motacilla.			
Motacilla flava, Linn. <i>Blue-headed Wagtail.</i>			
2. Adult males, May, Malta, Bree Coll.	...	2 clutches of 5 eggs each from Lapland	...
1. ,, female ,, ,,			
1. ,, male, Etawah, India, March, Bree Coll.			
Motacilla raii, Bp. <i>Yellow Wagtail.</i>			
Skin of male, April, Lancing (Swaysland)	...	2 clutches, 1 of 6 and another of 4 eggs, Thuringia	...
Genus Anthus.			
Anthus pratensis (Linn). <i>Meadow Pipit.</i>			
Adults, shot locally.	...	4 local clutches	LXIV
Skin of male, Romney Marsh, Bree Coll.			

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Anthus cervinus (Pall). <i>Red-throated Pipit.</i> Skin of male, April, Malta (Adams), Bree Coll. Skin of female, Spring, Isle of Wight, Bree Coll.			
Anthus trivialis (Linn). <i>Tree Pipit.</i> Skin of male, Great Yarmouth, Winter P ,, female, Aquilas, Spain P	...	7 local clutches	...
Anthus campestris (Linn). <i>Tawny Pipit.</i> Skin of female, May, Malta (Adams), Bree Coll.			
Anthus richardi, Vieill. <i>Richards Pipit.</i>			
Anthus spipoletta (Linn). <i>Water Pipit.</i> Skins of adult and young, Switzerland, Bree Coll.			
Anthus obscurus (Lath). <i>Rock Pipit.</i> Adults shot at Walton-on-the-Naze, (Backhouse) P Skin of adult male, Stromness, Summer, Bree Coll. Skins of 2 adults, Orkney, Winter ,, Skin of adult, Greenland ,, ,, ,, adult male, I. of Wight ,, ,, adult, without data Skins of male and female, Spurn, Oct. P	...	3 eggs	LXX
Family PYCNONOTIDÆ. Genus Pycnonotus. Pycnonotus capensis (Linn). <i>Gold-vented Bulbul.</i> Skins of male & female, Port Elizabeth, South Africa P			

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Family ORIOLIDÆ.			
Genus Oriolus.			
Oriolus galbula, Linn.			
<i>Golden Oriole.</i>			
1 & 2. Adult male and female, Spurn, 1834 (both from Strickland Coll.).	...	2 clutches, each with 4 eggs, Thuringia	LXXII
Skin of adult male, Bulgaria, May, Bree Coll.			
„ adult female „ „			
Family LANIIDÆ.			
Genus Lanius.			
Lanius excubitor, Linn.			
<i>Great Grey Shrike.</i>			
1. ad. Bielby, October, 1880, (Allen).	Allis Coll.	clutch of 4 eggs, Vienna	LXXIII
2. ad. Cherry Burton, Jan. 1885 „			
Skin of male, Plain of Accra, December, (Tristram).			
Skin of female with no data.			
„ male, Wolverhampton, Bree Coll.			
L. excubitor var. major, Pall.			
1 & 2. Bought in Hull, and shot in Holderness, January, 1896.	...	... ..	LXXIV
Lanius minor, gmel.			
<i>Lesser Grey Shrike.</i>			
2 Skins, without data.	...	clutch of 4 eggs, Sarepta	...
Lanius collurio, Linn.			
<i>Red-backed Shrike.</i>			
- Skins of male & young male, Hungary, P	...	clutch of 3 eggs, Uppingham „ 5 „ Surrey „ 5 „ S. of Spain	...
Lanius auriculatus, Mull.			
<i>Woodchat Shrike.</i>			
1 to 3. Males, shot near Cambridge, (Strickland Coll).	...	3 clutches of eggs with 5 each from South of Spain	LXXVII
2 Skins of adult males, without data.			
Skin of juvenile male, Malta (Adams), Bree Coll.			
Skin of male, Caiffa (Tristram), March, Bree Coll.			

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Family AMPELIDÆ.			
Genus Ampelis.			
Ampelis garrulus, Linn.			
<i>Waxwing or Bohemian Chatterer.</i>			
1 & 2. Pairs of adults, Scalby, near Scarbro', 1895.	...	1 egg of doubtful locality	LXXVIII
Skins of 4 adult males, Sidensvans, (Wheelwright), Bree Coll.			
Skins of 2 adult females ,, ,,			
Skin of old male ,, ,,			
,, adult, Sweden ,, ,,			
Skins of 3 immature birds ,, ,,			
Skin, without data.			
Family MUSCICAPIDÆ.			
Genus Muscicapa.			
Muscicapa grisola, Linn.			
<i>Spotted Flycatcher.</i>			
Skins of adult male and female, Isle of Wight, September, Bree Coll.	...	4 local clutches	...
Muscicapa atricapilla, Linn.			
<i>Pied Flycatcher.</i>			
1 & 2. Males shot near Helmsley. P	...	2 local clutches	LXXX
Skin of adult female, without data.			
,, young male, Malta, (Adams), Bree Coll.			
,, adult male, Spurn Point, April P			
Muscicapa parva, Bechst.			
<i>Red-breasted Flycatcher.</i>			
Skins of adult male & female, Russia, P			
Family HIRUNDINIDÆ.			
Genus Hirundo.			
Skins of 4 adults and young, without data			
Hirundo rustica, Linn.			
<i>Swallow.</i>			
Skin of (migrating) male, Malta, (Adams) Bree Coll.	Allis Coll.	4 local clutches	...
,, female, Isle of Wight ,,			

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Genus Chelidon.			
Chelidon urbica (Linn).			
<i>House Martin.</i>			
1 to 3. Newton-on-Ouse, July, 1897.	...	3 local clutches	LXXXIII
Skins of 2 adults, without data.			
Genus Cotile.			
Cotile riparia (Linn).			
<i>Sand Martin.</i>			
Near Harrogate, November, 1898, <i>see</i> "Naturalist."	...	2 local clutches	LXXXIV
3 Skins, without data, Bree Coll.			
Family FRINGILLIDÆ.			
Sub-Family FRINGILLINÆ.			
Genus Carduelis.			
Carduelis elegans, Steph.			
<i>Goldfinch.</i>			
Skin of male, Sarepta, Summer	P	nest and 5 eggs, Sutherland	...
,, female, Italy, Winter	P		
Genus Chrysomitris.			
Chrysomitris spinus (Linn).			
<i>Siskin.</i>			
Skin of female, Gt. Yarmouth, Winter	P		
Genus Serinus.			
Serinus Hortulanus, Koch.			
<i>Serin Finch.</i>			
Skins of male and female, Pau, 1885, (Tuck).			
Skin of female, Malta, (Adams), Bree Coll.			
Genus Ligurinus.			
Ligurinus chloris (Linn).			
<i>Greenfinch.</i>			
Adult, shot locally.			
Skins of 2 adults, without data.	...	3 clutches (typical) local 1 clutch, Heslington, and 1 Soham Pair of eggs, 1 large and 1 very minute, York	lxxxviii

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Genus Coccothraustes.			
Coccothraustes vulgaris, Pall.			
<i>Hawfinch.</i>			
2 Adult males and 1 young male, Audley End, Essex, 1888, (Travis).			
Pair of adults, shot at Terrington, near York, Dec. and Jan. 1891-2.	Sclerotic bones.	Clutches from Helmsley, Bishopthorpe, and Highgate	lxxxix
Skins of adult and young, without data, Bree Coll.	Allis Coll.	4 odd eggs, without data	Xc
Genus Passer.			
Passer domesticus (Linn).			
<i>House Sparrow.</i>			
Skin of adult female, Brighton, (Sharpe)	...	3 local clutches and many odd eggs	...
„ adult male, British, Bree Coll.			
Passer montanus (Linn).			
<i>Tree Sparrow.</i>			
Skins of 2 adults, South of England, Bree Coll.	...	5 local clutches	...
Genus Fringilla.			
Fringilla cœlebs, Linn.			
<i>Chaffinch.</i>			
Skin of adult male, Frating Hall, Bree Coll.	...	5 local clutches	...
„ female, I. of W., Winter „		Nest, and 2 eggs of a blue variety from Riccal	
Fringilla montifringilla, Linn.			
<i>Brambling.</i>			
Skin of adult female, Easington, March (Loten) P	...	2 clutches from Lapland	...
Skins of 3 males and 1 female, shot at Great Oakley, nr. Harwich, Bree Coll.			
Genus Linota.			
Linota cannabina (Linn).			
<i>Common or Grey Linnet.</i>			
Skin of male, I. of Wight, Aug. Bree Coll.			
„ male, Spring, no data.			
„ young female, Isle of Wight, Bree Coll.	Allis Coll.	4 local clutches	...

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Linota linaria (Linn).			
<i>Mealy Redpoll.</i>			
1 to 3. Suffolk Coast (Dix). P	...	5 eggs, Lapland	XCVI
Skin of adult, Colchester, Bree Coll.		Nest and 5 eggs, Lapland	
„ „ without data.			
„ exceptionally red old male, Lapland (Wheelwright) Bree Coll. <i>short-billed</i> .			
„ adult female, Lapland (H.W.W.) Bree Coll.			
Skins of 1 adult male and 2 adult females, Lapland (H.W.W.) Bree Coll. <i>short-billed race</i> , Summer.			
„ 2 Adult females, Lapland, April (H.W.W.), Bree Coll., <i>long-billed race</i> .			
Linota rufescens, Vieill.			
<i>Lesser Redpoll.</i>			
6 Skins without data.	...	3 local clutches	...
Linota flavirostris (Linn).			
<i>Twite.</i>			
Skin of female, Sussex, Bree Coll.	Allis Coll.	2 clutches of 5 and 6 eggs respectively, local	...
5 Skins, without data.			
Skin of female, Spurn, October, (Back-house) P			
Sub-Family LOXIINÆ.			
Genus Pyrrhula.			
Pyrrhula europœa, Vieill.			
<i>Common Bullfinch.</i>			
Skin of male, Essex, Bree Coll.			
„ male & female, Cardiff, Winter P	...	Clutches from Sedgefield, Rutland, Oxford, &c.	....
Genus Pinicola.			
Pinicola enucleator (Linn).			
<i>Pine Grosbeak.</i>			
Skins of 7 males and 1 adult female, Lapland, (Wheelwright), Bree Coll.	...	2 eggs	C
Skins of 3 young males (1st plumage), (Wheelwright), Bree Coll.			
1 & 2. Bought in Hull, imported in ice from Russia.	...		

SPECIMENS MOUNTED OR SKINS.

SKELETONS.

EGGS.

CASE
No.Genus *Loxia*.*Loxia curvirostra*, Linn.*Crossbill.*

1. Adult male, Allerton, December, 1898

2. Caught in Fishing-smack, Scarbro',
August, 1898.Skins of 2 adult males, Easington, Autumn
1899, (Loten) PSkin of adult female, Easington, Autumn,
1898, (Loten) PSkins of 2 young males, Lapland, (Wheel-
wright), Bree Coll.*Loxia pityopsittacus*, Bechst.*Parrot Crossbill.*Skins of 1 adult male and 2 adult females,
Lexden, Colchester, Feb. 1862, Dr.
Bree.Skins of 2 adult males, Lapland,
(Wheelwright), Bree Coll.

,, 2 ,, females ,, ,,

Skin of young male ,, ,,

Skins of 4 nestlings ,, ,,

Loxia bifasciata, C. L. Brehm.*Two-barred Crossbill.*

Sub-Family EMBERIZINÆ.

Genus *Emberiza*.*Emberiza miliaria*, Linn.*Common Bunting.*1. Adult pied variety, shot at Withern-
wick, March, 1894.2. Adult male, Easington, Oct., 1899,
(Loten).

Skin of male, Asia Minor, Bree Coll.

Emberiza citrinella, Linn.*Yellow Bunting.*

Skin of male, St. Boniface, Bree Coll.

Emberiza cirlus, Linn.*Cirl Bunting.*

Allis Coll.

clutch of 4 eggs, Naburn
4 odd eggs, without data

CIV

Sclerotic
ring.

4 local clutches

...

...

clutch of 4 eggs, Leatherhead
,, 3 ,, Leominster

...

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Emberiza hortulana, Linn. <i>Ortolan Bunting.</i>	...	clutch of 4 eggs, Greece ,, 4 ,, S. of France	...
Emberiza rustica, Pall. <i>Rustic Bunting.</i> Easington, near Hull, see "Zoologist," 1881, p. 465. Skin of young female, Russia, July, (Schlüter).			
Emberiza pusilla, Pall. <i>Little Bunting.</i> Skin of male, Europe, (Verreaux), Bree Coll. ,, female, Sea of Okhotsk ,,			
Emberiza schoeniclus, Linn. <i>Reed Bunting.</i> Skins of 3 adults, without data.	...	clutch of 5 eggs, Marston ,, 6 ,, Heworth ,, 4 ,, Thetford	...
Genus Plectrophanes.			
Plectrophanes lapponicus (Linn). <i>Lapland Bunting.</i> Skins of adult male and female, Greenland, Bree Coll.	...	clutch of 7 eggs, Lapland	...
Plectrophanes nivalis (Linn) <i>Snow Bunting.</i> 5 Specimens, shot at Spurn (4 males & 1 female), January, 1896. Skin of adult male, Summer, Fort Simpson, Ross. Skin of male, Easington, Winter (Loten)P ,, adult female, Orkneys, Bree Coll. Skins of adult & young, Denmark ,, 6 Skins, without data.	...	clutch of 6 eggs, Iceland	CXII
Family ALAUDIDÆ.			
Genus Alauda.			
Alauda arvensis, Linn. <i>Sky Lark.</i> 1 & 2. Adult males, shot at Spurn, Jan. 1896. Skins of 3 females, South of England, Winter, Bree Coll.	Allis Coll.	1 clutch, Thetford 5 local clutches	CXIII

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Alauda cristata, Linn. <i>Crested Lark.</i> Skin of adult, Westphalia, Bree Coll.	...	3 clutches from Saxony	...
Alauda arborea, Linn. <i>Wood Lark.</i> 1 & 2. Shot in Suffolk, (Dix). P	...	clutch of 4 eggs, Saxony	CXV
Genus Callandrella.			
Callandrella brachydactyla (Leisl). <i>Short-toed Lark.</i> Skins of male and female, Volga, May, Bree Coll. Skin marked "British," Skin of male, Malta, (Adams) Skin, without data.	...	clutch of 4 eggs, S. of Spain	...
Genus Otocorys.			
Otocorys alpestris (Linn). <i>Shore Lark.</i> 3 Adults, Easington, Dec. 1890 (Loten). Skins of 1 male & 2 females, without data.	...	2 eggs, professedly of this species, without data.	CXVII
Family STURNIDÆ.			
Genus Sturnus.			
Sturnus vulgaris, Linn. <i>Starling.</i> 1 & 2. York, (Backhouse). P Skin of male, Isle of Wight, March. ,, adult, without data. ,, adult, Spurn, (Backhouse).	Allis Coll.	2 local clutches	CXVIII
Sturnus unicolor, De La Marm <i>Sardinian Starling.</i> Skin of adult male, Gibralta, Bree Coll.			
Genus Pastor.			
Pastor roseus (Linn). <i>Rose-coloured Pastor.</i> 1 & 2. Killed in England (Strickland Coll.) Skins of 2 adults, Bulgaria, Summer, Bree Coll.	...	clutch of 5 eggs, Greece	CXX

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Family CORVIDÆ.			
Genus Pyrrhocorax.			
Pyrrhocorax graculus (Linn). <i>Chough.</i>			
1 & 2. Adults, Innisboffin, Ireland, April, 1888, (Marsden).	...	clutch of 4 eggs, Devon	CXXI
Pyrrocorax alpinus, Koch. <i>Alpine Chough.</i>			
Skin of adult, shot at Ballanhoe, Scotland, Bree Coll.			
Genus Nucifraga.			
Nucifraga caryocatactes (Linn) <i>Nutracker.</i>			
Skin of adult male, Göteborg	P		
„ adult female, Pommerania	P		
Genus Garrulus.			
Garrulus glandarius (Linn). <i>Common Jay.</i>			
Adults (male and female), Audley End, Essex, 1889, (Travis).			
Skin of adult, Avington, (Sharpe), Bree Coll.	Allis Coll.	clutch of 4 eggs, Hereford- shire clutch of 3 eggs, Uppingham	CXXIV
Genus Pica.			
Pica rustica (Scop). <i>Magpie.</i>			
Adults, Yorkshire	P		
Skins of 2 males and 1 female, without data	P		
„ adult male & female, Heworth	P		
Genus Corvus.			
Corvus monedula, Linn. <i>Jackdaw.</i>			
Adult, British killed	P		
Corvus corone, Linn. <i>Carrion Crow.</i>			
	Allis Coll.	4 local collections 1 clutch of abnormally coloured eggs, Wilberfoss	CXXV
	Allis Coll.	4 local clutches clutch of 5 eggs, Rutland	CXXVI
	Allis Coll.	6 local clutches	...

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Corvus cornix, Linn. <i>Hooded or Royston Crow.</i>			
Shot at Bridlington, Autumn, 1895	P Allis Coll.	clutch of 2 eggs, Ireland ,, 4 ,, Aberdeen	CXXVIII
Corvus frugilegus, Linn. <i>Rook.</i>			
1, 3 & 4. Spotted varieties, shot near Pickering.			
2. Pied variety, Cottingwith	P Allis Coll.	7 clutches, Heslington	CXXIX
Case I. Four spotted varieties.			CXXX
,, II. 2 Adults (normal), and 1 with abnormal bill.			
Corvus corax, Linn. <i>Raven.</i>			
Adults shot in Iceland	P Sclerotic	2 eggs, Penzance	CXXXI
Skin of adult, Iceland.	rings.	3 eggs, without data	
Order MACROCHIRES.			
Family CYPSELIDÆ.			
Genus Cypselus.			
Cypselus apus (Linn). <i>Common Swift.</i>			
Skins of 2 adults, Colchester, Bree Coll. immature, Easington	P	Sclerotic bones.	clutch of 3, Pocklington ...
Cypselus melba (Linn). <i>Alpine Swift.</i>			
Family CAPRIMULGIDÆ.			
Caprimulgus europæus, Linn. <i>Nightjar.</i>			
1—4. Adult and 2 nestlings, Sutton-on- Derwent	P	Sclerotic rings.	clutch from Riccal, 3 odd eggs CXXXIV

SPECIMENS MOUNTED OR SKINS.

SKELETONS.

EGGS.

CASE
No.

Order PICI.

Family PICIDÆ.

Sub-Family PICINÆ.

Genus Picus.

Picus major, Linn.*Greater Spotted Woodpecker.*1 & 2. Male and female, Alne, Nov.
1888.Skins of male and female, Scandinavia,
Bree Coll.

Skin of female, without data.

...

clutch of 4 eggs, Yorkshire

CXXXV

Picus minor, Linn.*Lesser Spotted Woodpecker.*1 & 2. Male & female, Newport, Essex,
1888, (Travis).

...

clutch of 7, Sweden

CXXXVI

Genus Gecinus.

Gecinus viridis (Linn).*Green Woodpecker.*1. Juvenile, Melbourne, nr. Pocklington,
August, 1888.2. Adult female, Riccaldale Wood, May,
1889, (Havelock).

3. Adult male, Helmsley (1888 ?)

Skin of female, Sweden, Bree Coll.

,, adult (Irby) ,,

Sclerotic
bones.clutch of 6, Helmsley
,, 4, Uppingham

CXXXVII

Sub-Family IYNGINÆ.

Genus Inyx.

Inyx torquilla, Linn.*Wryneck.*

I. Adult, Wenden, Essex, (Travis).

...

2 clutches, without data

CXXXVIII

SPECIMENS MOUNTED OR SKINS.	SKELETONS.	EGGS.	CASE No.
Order COCCYGES.			
Family ALCEDINIDÆ.			
Genus Alcedo.			
Alcedo ispida, Linn.			
I.—VIII. Pair of adults and 6 young, taken on River Nidd, near Kirk- Hammerton, June 1890.	...	clutch of 4, Heworth ,, 7, Thetford	CXXXIX
Family CORACIIDÆ.			
Genus Coracias.			
Coracias garrulus, Linn.			
<i>Roller.</i>			
Skins of 2 adults, Bulgaria, Bree Coll.	...	clutch of 4, South Spain	...
Family MEROPIDÆ.			
Genus Merops.			
Merops apiaster, Linn.			
	...	clutch of 5, Sarepta	...
Family UPUPIDÆ.			
Genus Upupa.			
Upupa epops, Linn.			
<i>Hoopoe.</i>			
1 & 2. Adults, Yorkshire, Nov. 1836, Strickland Coll.	...	clutch of 3, South Spain	CXLII
Family CUCULIDÆ.			
Genus Cuculus.			
Cuculus canorus, Linn.			
<i>Cuckoo.</i>			
1 & 2. Immature and nestling, both killed locally, (Helstrip).			
Skins of adult & juvenile, Colchester, Bree Coll.	Sclerotic bones.	4 odd eggs (one very light in colour)	CXLIII
Skin of nestling ,, ,,		with 3 Tree Pipits, Heworth	
Immature female, Spurn P		,, 2 Meadow Pipits ,,	
		,, 5 Hedge Sparrows, Wicken	
Cuculus americanus, Linn.			
<i>Yellow-billed Cuckoo.</i>			

APPENDIX TO PART VI.
OF THE
CATALOGUE OF BRITISH PLANTS IN THE HERBARIUM
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
COMPILED BY HENRY J. WILKINSON, HON. CURATOR, BOTANY.

	DATE.	COLLECTOR.	HERBARIUM.
375. <i>Rubus affinis</i> Blox, non Wh. & N.			
<i>Sp.</i> From Croft, N. Yorks. ... "Is apparently a rather narrowleaved form of <i>R. plicatus</i> , Wh. & N." W.M.R.	1830	J. Dalton	Rev. J. Dalton
<i>Sp.</i> From Langwith, S.E. Yorks. ... "Should be <i>R. selmeri</i> , Lindeb." W.M.R.	1885	H. J. Wilkinson	H. J. Wilkinson
376. <i>Rubus lindleianus</i>, Lees.			
<i>Sp.</i> From Skipwith, S.E. Yorks. ... "It seems to be a form of <i>R. Schlechtendalii</i> , Weihe. If so, new for v.c. 61. W.M.R.	1885	H. J. Wilkinson	H. J. Wilkinson
377. <i>Rubus rhamnifolius</i>, Wh. & N.			
<i>Sp.</i> From Skipwith, S.E. Yorks. ... "Material too imperfect for absolute certainty, but it looks very like <i>R. integrifolius</i> , P. J. Muell, which would be an especially interesting record for v.c. 61." W.M.R.	1885	H. J. Wilkinson	H. J. Wilkinson
<i>Sp.</i> From Croft, N. Yorks. ... "Is <i>R. rhamnifolius</i> , subspec. <i>Bakeri</i> , F. A. Lees.	1830	J. Dalton	Rev. J. Dalton
<i>Sp.</i> From Langwith, S.E. Yorks. ... "Possibly <i>R. rhamnifolius</i> ." W.M.R.	1885	H. J. Wilkinson	H. J. Wilkinson

**379. *Rubus leucostachys*,
Schleich.**

Sp. From Skipwith, S.E. Yorks. ...
"Correctly named new for v.c. 61."

W.M.R.

Sp. From Knaresboro', Yorks. ...

DATE.

COLLECTOR.

HERBARIUM.

1885

H. J. Wilkinson

H. J. Wilkinson

1900

H. Fisher

H. J. Wilkinson

**380. *Rubus carpinifolius*,
Wh. & N.**

Sp. From Skipwith, S.E. Yorks. ...
"I fully believe it to be correctly
named and new for v.c. 61." W.M.R.

"The specimens from Heslington,
York, appear to be *R. pulcherrimus*,
Neum (*R. carpinifolius* Blox, in part,
not of Wh. & N.)" W.M.R.

1885

H. J. Wilkinson

H. J. Wilkinson

1885

H. J. Wilkinson

H. J. Wilkinson

**381. *Rubus macrophyllus*,
Wh. & N.**

Sp. From Skipwith, S.E. Yorks. ...
"I think an exceptionally large paniced
form of *R. macrophyllus*, Wh. & N.,
but I should like to see more of it
for certainty." W.M.R.

1885

H. J. Wilkinson

H. J. Wilkinson

382. *Rubus sprengelii*, Weike

Sp. From Skipwith, S.E. Yorks. ...
"Surely *R. plicatus*, Wh. & N., and
if so, new for v.c. 61, but I should
like to see a panicle in flower." W.M.R.

1885

H. J. Wilkinson

H. J. Wilkinson

383. *Rubus rosaceus*, Wh. & N.

Sp. From Langwith, S.E. Yorks. ...
"Rightly named I believe, but from
these pieces only I cannot satisfy
myself to which variety of this very
variable species it belongs, anyone
would be new for v.c. 61." W.M.R.

1885

H. J. Wilkinson

H. J. Wilkinson

**384. *Rubus rudis*.
(*Auct. Brit. up to 1886.*)**

Sp. in Herb. From Somersetshire. ...
"Should be *R. echinatus* Lindl." W.M.R.

...

H. Fisher

H. J. Wilkinson

	DATE.	COLLECTOR.	HERBARIUM.
385. <i>Rubus radula</i>, Wh. <i>Sp. in Herb.</i> From Somersetshire. ... "Not radula, but a form of Anglo-saxonicus Gelert, coming between type and raduloides." W.M.R.	...	H. Fisher	H. J. Wilkinson
380a. <i>Rubus pulcherrimus</i>, Neum. <i>Sp.</i> Skipwith, S.E. Yorks. ... Plompton, Knaresboro', Yorks. ... "Record for v.c. 64." W.M.R.	1883 1900	H. J. Wilkinson H. Fisher	H. J. Wilkinson H. J. Wilkinson
380b. <i>Rubus lindebergii</i>, P. J. Muell. <i>Sp.</i> From Croft, N. Yorks. ... Sub-nom. <i>R. rhamnifolius</i> .	1830	J. Dalton	Rev. J. Dalton
380c. <i>Rubus villicaulis</i>, Koehl <i>Sub-spec. Selmeri Lindeb.</i> <i>Sp.</i> From Langwith and Skipwith, S.E. Yorks. ... "New record for v.c. 61." W.M.R. Scotton Bank, Knaresboro', Yorks.... "Confirmation for v.c. 64." W.M.R.	1883 1900	H. J. Wilkinson H. Fisher	H. J. Wilkinson H. J. Wilkinson
380d. <i>Rubus villicaulis</i>, Koehl <i>Sub-spec. Calvatus Blox.</i> <i>Sp.</i> From Langwith, S.E. Yorks. ... "New record for v.c. 61." W.M.R.	1883	H. J. Wilkinson	H. J. Wilkinson
380e. <i>Rubus argentatus</i>, P. J. Muell. <i>Var. robustus. P. J. Muell.</i> <i>Sp.</i> From Grimbald Crag, Knaresboro', Yorks. ...	1900	H. Fisher	H. J. Wilkinson
380f. <i>Rubus rusticanus</i>, Merc. (<i>R. discolor auct. Brit. mult.</i>) <i>Sp.</i> From Langwith, S.E. Yorks. ...	1883	H. J. Wilkinson	H. J. Wilkinson

	DATE.	COLLECTOR.	HERBARIUM.
381a. <i>Rubus macrophyllus</i>, Wh. & N. (<i>Sub-spec. Schlechtendalii</i> , <i>Weihe.</i>)			
<i>Sp.</i> From Goldsbro' Mill, Knaresboro', Yorks. "New for v.c. 64." W.M.R.	1900	H. Fisher	H. J. Wilkinson
<i>Sp.</i> From Skipwith, S.E. Yorks., <i>see</i> No. 376 sub-nom. <i>Lindleianus</i>	1885	H. J. Wilkinson	H. J. Wilkinson
382a. <i>Rubus mucronatus</i>, Blox.			
<i>Sp.</i> From Skipwith, S.E. Yorks. ... "Type new for v.c. 61." W.M.R.	1883	H. J. Wilkinson	H. J. Wilkinson
382b. <i>Rubus drejeri</i>, G. Jensen (<i>Sub-spec. Leyanus</i> , <i>Rogers.</i>)			
<i>Sp.</i> From between Sewerby & Bridlington, Yorks. "Undoubtedly my subspec <i>R. Leyanus</i> , though with more compound leaf- toothing than usual. New for York- shire and the most Northern locality from which I have yet seen the sub- species." W.M.R.	1897	H. Fisher	H. J. Wilkinson
383a. <i>Rubus Koehleri</i>, Wh. & N. (<i>Sub-spec. dasyphyllus</i> , <i>Rogers.</i>)			
<i>Sp.</i> From Skipwith, S.E. Yorks. ... (Sub-nom. <i>R. pallidus</i> , Bab. non. Wh. & N.)	1883	H. J. Wilkinson	H. J. Wilkinson
385a. <i>Rubus dumetorum</i>, Wh. & N.			
<i>Sp.</i> From Skipwith, S.E. Yorks. ...	1883	H. J. Wilkinson	H. J. Wilkinson
386. <i>Rubus corylifolius</i>, Sm.			
<i>Sp.</i> From Langwith, S.E. Yorks. ...	1883	H. J. Wilkinson	H. J. Wilkinson
387. <i>Rubus cæsius</i>, Linn.			
<i>Sp.</i> From Skipwith, S.E. Yorks. ...	1883	H. J. Wilkinson	H. J. Wilkinson

CATALOGUE OF BRITISH PLANTS IN THE HERBARIUM
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY.

PART VII.

COMPILED BY HENRY J. WILKINSON, HON. CURATOR, BOTANY.

SAXIFRAGÆ.

	DATE.	COLLECTOR.	HERBARIUM.
444. Saxifraga oppositifolia, Linn. <i>Alpine rocks, from N. Wales to Shetland.</i> <i>Distrib.</i> Arctic & alpine Europe, Asia, &c.			
<i>Sp.</i> Clova Mts., Forfarshire	1834	J. McNab	S. Hailstone
Ben Lomond, Stirlingshire	1848	J. T. McKay	„
Ingleboro', Yorkshire	1796	R. Teesdale	Rev. J. Dalton
Ben Lawers, Perthshire	1806	J. Dalton	„
Ben Lawers „	1830	R. K. Greville	„
Clova Mts., Forfars.	1820	W. Middleton	W. Middleton
Ingleboro', Yorks., plentifully ...	1820	S. Hailstone	S. Hailstone
445. Saxifraga nivalis, Linn. <i>Alpine rocks, N. Wales to Highlands.</i> <i>Distrib.</i> Arctic Europe, N. Asia, and N. America.			
<i>Sp.</i> Ben Lawers, Perthshire	1806	J. Dalton	Rev. J. Dalton
Ben Lawers „	1849	W. L. Lindsay	S. Hailstone
Canlochen Glen	1849	J. Backhouse, jr.	„
Dumbartonshire	1837	J. Hamilton	„

446. Saxifraga stellaris, Linn.

Sub-alpine rills, from North Wales to Caithness.

Distrib. Arctic and Alpine Europe, N. Asia and N. America.

	DATE.	COLLECTOR.	HERBARIUM.
<i>Sp.</i> Ingleboro', Yorks.	1800	J. Dalton	Rev. J. Dalton
Snowdon, Carnarvonshire	1820	W. Middleton	W. Middleton
Ben Lomond, Stirlings.	1848	J. T. McKay	S. Hailstone
Holwick, Teesdale, Yorks.	1883	H. J. Wilkinson	H. J. Wilkinson
Hungry Hill, co. Cork	1894	R. A. Phillips	„
Old Man, and other mountains in Cumberland	1830	S. Hailstone	S. Hailstone

447. Saxifraga geum, Linn.

Mountains of Cork and Kerry.

Distrib. N. Spain, Pyrenees.

<i>Sp.</i> Thorp Arch Woods, Yorks. (not native)	1845	S. Hailstone	S. Hailstone
Arran, Bute (sub-nom <i>hirsuta</i>) ...	1830	Dr. Balfour	„
Near Berehaven, co. Cork	1894	R. A. Phillips	H. J. Wilkinson

448. Saxifraga umbrosa, Linn.

W. and S.W. Ireland.

Distrib. N. Spain, Portugal, &c.

<i>Sp.</i> Thorp Arch Woods, Yorks. (not native)	1832	S. Hailstone	S. Hailstone
Near Adrigole, co. Cork	1894	R. A. Phillips	H. J. Wilkinson
Heselden Gill (<i>Var. crenata</i> Bab.) ...	1842	J. Tatham	S. Hailstone
Hasleton Gill, between Arncliffe and Horton-in-Craven, Yorks. ...	1798	J. Dalton	Rev. J. Dalton
Studley Woods, Ripon, Yorks. ...	1820	W. Middleton	W. Middleton

449. Saxifraga hirculus, Linn.

Bogs and Wet Moors, Perth to Yorks.

Distrib. Alpine, N. and Mid. Europe (Arctic), N. Asia.

<i>Sp.</i> North Riding, Yorks.	(1820)	Dr. Townson	Rev. J. Dalton
Bauldersdale, N. Yorks.	(1820)	J. Backhouse	W. Middleton
Baldersdale	1843	J. Backhouse, jr.	S. Hailstone
Near the confluence of Boulder and Black Beck, nr. Cotherstone, N.W. Yorks.	(1810)	J. Backhouse	Rev. J. Dalton

	DATE.	COLLECTOR.	HERBARIUM.
450. Saxifraga aizoides, Linn.			
<i>Mountain rills, Yorkshire to Orkney.</i>			
<i>Distrib.</i> N. & Mid. Europe (Arctic), N. Asia, N. America.			
<i>Sp.</i> Helvellyn	1807	J. Dalton	Rev. J. Dalton
Widdy Bank, Durham	1820	S. Hailstone	S. Hailstone
Old Man, and other mountains in Cumberland	1820	„	„
Ben Lomond, Stirlings.	1830	„	„
Ingleboro', Yorks.	1798	J. Dalton	Rev. J. Dalton
451. Saxifraga tridactylites, Linn.			
<i>Wall-tops and dry places, Caithness to Kent.</i>			
<i>Distrib.</i> Europe, N. Africa, N. & W. Asia.			
<i>Sp.</i> Copgrove, Yorks.	1791	J. Dalton	Rev. J. Dalton
Upon a low building just beyond the turnpike in Bowling Lane, Yorks.	1803	S. Hailstone	S. Hailstone
On the walls about Barnoldswick-in-Craven, Yorks.			
Malham „	1833	„	„
Heslington „	1810	W. Middleton	W. Middleton
452. Saxifraga rivularis, Linn.			
<i>Alpine wet rocks and streams, Scotland.</i>			
<i>Distrib.</i> Scandinavia, Arctic Europe, Asia.			
<i>Sp.</i> Lochnagar, Aberdeenshire	1849	J. Backhouse, jr.	S. Hailstone
Lochnagar „	1837	Dr. Balfour	„
Ben Nevis, Inverness.	1810	Dr. Townson	Rev. J. Dalton
453. Saxifraga granulata, Linn.			
<i>Sandy banks and meadows, from Elgin to Kent.</i>			
<i>Distrib.</i> Europe, N. Africa, W. Asia, &c.			
<i>Sp.</i> Copgrove, Yorks.	1790	J. Dalton	Rev. J. Dalton
Heslington „	1810	W. Middleton	W. Middleton
Under Malham Cove, Yorks... ..	1830	S. Hailstone	S. Hailstone

454. Saxifraga cernua, Linn.*Schistose rocks, Ben Lawers.**Distrib, Arctic and Alpine, Europe,
N. Asia, &c.*

<i>Sp.</i> Ben Lawers, Perthshire.	1806	J. Dalton	Rev. J. Dalton
Ben Lawers „	1848	J. Gardiner	S. Hailstone

**455. Saxifraga hypnoides,
Linn.***Hilly sub-alpine districts, Caithness to
Somerset.*

<i>Sp.</i> Ingleboro', Yorks.	1796	R. Teesdale	Rev. J. Dalton
Salisbury Crags, Edinburgh	1806	J. Dalton	„
Ben Nevis, Inverness.	1806	„	„
Malham Tarn, Yorks.	1820	S. Hailstone	S. Hailstone
Llanberris, Carnarvon. (sub-nom pal- mata)	1796	Bingley	Rev. J. Dalton
<i>Var.</i> hirta (Don.), Brandon Mts. co. Kerry	1841	C. C. Babington	S. Hailstone
„ affinis (Mack.) „ „	1841	J. T. McKay	„
„ decipiens (Ehrh.) (sub-nom caespitosat) Cwm Idwell, N. Wales	1800	J. Dalton	Rev. J. Dalton
„ platypetala (Sm.), Cwm Idwell, N. Wales	1800	„	„

**456. Chrysosplenium alterni-
folium, Linn.***Moist woods, from Argyll to Kent and
Devon.**Distrib. Europe (Arctic), N. & W. Asia.*

<i>Sp.</i> Bell Bankwood, Bingley, Yorks. ...	1820	S. Hailstone	S. Hailstone
Studley, near Ripon „ ...	1791	J. Dalton	Rev. J. Dalton
Castle Howard „ ...	1820	W. Middleton	W. Middleton

**457. Chrysosplenium opposi-
tifolium, Linn.***Damp shady places, from Orkney to Kent.**Distrib. Europe, Siberia, &c.*

<i>Sp.</i> Copgrove, Yorks.	1790	J. Dalton	Rev. J. Dalton
Langwith „	1810	W. Middleton	„
Crambe Beck, Castle Howard, Yorks.	1883	H. J. Wilkinson	H. J. Wilkinson

	DATE.	COLLECTOR.	HERBARIUM.
458. Parnassia palustris, Linn.			
<i>Wet sea-banks, moors, and bogs, from Dorset to Shetland.</i>			
<i>Distrib.</i> Europe, N. Africa, N. & W. Asia, &c.			
<i>Sp.</i> Gordale, Yorks.	1801	S. Hailstone	S. Hailstone
Askham Bogs, Yorks.	1800	„	„
In a field beyond the house at Bowcliffe, near Bramham, York ...	1836	„	„
Knaresboro', Yorks.... ...	1791	J. Dalton	Rev. J. Dalton
Langwith „	1820	W. Middleton	W. Middleton
459. Ribes grossularia, Linn.			
<i>Gooseberry. Hedges and copses, N. of England, &c.</i>			
<i>Distrib.</i> Europe, N. Africa, W. Asia.			
<i>Sp.</i> Hedges about Boston, Thorp Arch, Yorks.	1832	S. Hailstone	S. Hailstone
Copgrove, Yorks.	1791	J. Dalton	Rev. J. Dalton
<i>Var.</i> uva crispa (Linn.), nr. Ingleton, Yorks.	(1800)	„	„
460. Ribes alpinum, Linn.			
<i>Woods in N. of England.</i>			
<i>Distrib.</i> Europe, N. and W. Asia, N. America.			
<i>Sp.</i> Bowling & Great Horton lanes, Yorks. on the right of the road above Thornton	1803	S. Hailstone	S. Hailstone
Stainforth Wood, Settle, Yorks. ...	1834	J. Tatham, jr.	„
Clapham, Yorks.	1893	H. J. Wilkinson	H. J. Wilkinson
461. Ribes rubrum, Linn.			
<i>Woods and thickets, N. of England, &c.</i>			
<i>Distrib.</i> Europe, N. & W. Asia, N. & W. Himalaya.			
<i>Sp.</i> By the side of Bradford Brook, below the town, Yorks.	1808	S. Hailstone	S. Hailstone
Woods at Boston Spa, Yorks. ...	1832	„	„

462. Ribes rubrum, Linn.*Var. petræum* (Sm.)*Sp.* Croft, N. Yorks.Amongst the limestone rocks as you
pass from Malham Cove to Gordale,
Yorks.

DATE.

COLLECTOR.

HERBARIUM.

1826

J. Dalton

Rev. J. Dalton

1832

S. Hailstone

S. Hailstone

463. Ribes rubrum, Linn.*Var. spicatum* (Robs.)*Sp.* Richmond, Yorks.

(1810)

E. Robson

Rev. J. Dalton

464. Ribes nigrum, Linn.Black Currant. *Woods, &c., Mid. Scot-*
*land, Southward.**Distrib.* Europe, N. & W. Asia.*Sp.* By the Skerr, near Darlington, Dur.

(1830)

J. Backhouse

S. Hailstone

CRASSULACEÆ.**465. Tillæa muscosa, Linn.***Sandy heaths, Norfolk, Devon, &c.**Distrib.* W. Europe, from Holland
southward.*Sp.* Near Norwich, Norfolk

1798

Sir J. E. Smith

Rev. J. Dalton

Near Yarmouth ,,

1806

J. Dalton

,,

Lowestoft, Suffolk

1845

W. C. Trevelyan

S. Hailstone

Poole, Dorset

1885

H. Fisher

H. J. Wilkinson

**466. Cotyledon umbilicus,
Linn.***Rocks and Walls, from Argyll to Kent.**Distrib.* From France, southward, to
W. Asia.*Sp.* Upon almost every Rock and Wall in
the Isle of Man, growing to a great
size

1841

S. Hailstone

S. Hailstone

Walls of ruins of Iona, Scotland ...

1833

,,

,,

Nether Bradfield, Sheffield, Yorks....

1893

J. Austen

H. J. Wilkinson

	DATE.	COLLECTOR.	HERBARIUM.
467. <i>Sedum roseum</i>, Scop. <i>Alpine and Sub-alpine Rocks, S. Wales to Shetland.</i> <i>Distrib.</i> N. and Mid. Europe (Arctic), N. America.			
<i>Sp.</i> Ingleboro', Yorks.	1796	J. Dalton	Rev. J. Dalton
Snowdon, Carnarvon.	(1820)	Prof. Henslow	,,
Ingleboro', Yorks.	1820	W. Middleton	W. Middleton
468. <i>Sedum telephium</i>, Linn. <i>Stoney hedgebanks, copses, Perth southward.</i>			
<i>Sp.</i> Furness Abbey, Lancashire... ..	(1810)	S. Hailstone	S. Hailstone
469. <i>Sedum villosum</i>, Linn. <i>Bogs and Marshes (sub-alpine), Yorks. to Argyll.</i> <i>Distrib.</i> Europe (Arctic), Norway to Italy, &c.			
<i>Sp.</i> Pentland Hills, Edinburgh	1830	Giles Munby	Munby
Wensleydale, Yorks... ..	1820	J. Dalton	Rev. J. Dalton
Stackhouse, near Settle, Yorks.	1842	H. Ibbotson	H. J. Wilkinson
Holwick, Teesdale ,,	1883	H. J. Wilkinson	,,
Ingleboro', Yorks.	1796	J. Dalton	Rev. J. Dalton
470. <i>Sedum album</i>, Linn. <i>Alien</i>			
<i>Sp.</i> Greta Bridge, N. Yorks.	1822	S. Hailstone	S. Hailstone
471. <i>Sedum dasyphyllum</i>, Linn. <i>Alien.</i>			
<i>Sp.</i> Old Walls between Midleton and Ballinacurra, co. Cork	1895	R. A. Phillips	H. J. Wilkinson
472. <i>Sedum anglicum</i>, Huds. <i>Rocks and banks, N. to Shetland.</i> <i>Distrib.</i> W. Europe.			
<i>Sp.</i> Isle of Man	1832	S. Hailstone	S. Hailstone
Castle Hill, Hastings	1834	,,	,,
Rochespont, Cork Harbour	1894	R. A. Phillips	H. J. Wilkinson

473. *Sedum acre*, Linn.

Rocks, Walls, &c., Yorkshire, Channel Islands.

<i>Sp.</i> Thorp Arch, Yorks....	...	...	1830	S. Hailstone	S. Hailstone
Copgrove	,,	...	1790	J. Dalton	Rev. J. Dalton

474. *Sedum rupestre*, Linn.

Var. Majus, Syme.

<i>Sp.</i> Cheddar Pass, Somerset.	1884	H. Fisher	H. J. Wilkinson
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475. *Sedum forsterianum*, Sm.

<i>Sp.</i> Barmouth, Merionethshire	1841	Rev. T. Butler	S. Hailstone
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DROSERACEÆ.**476. *Drosera rotundifolia*, Linn.**

Sundew. Bogs and heaths, N.W. Shetland, Channel Islands.

Distrib. Europe (Arctic), N. & W. Asia.

<i>Sp.</i> Copgrove, Yorks.	...	...	1790	J. Dalton	Rev. J. Dalton
Eccleshill Moor, Yorks.	...	...	1800	S. Hailstone	S. Hailstone
Terrington Carr, N. Yorks....	...	...	1810	W. Middleton	W. Middleton
Skipwith Common, S.E. Yorks.	...	...	1883	H. J. Wilkinson	H. J. Wilkinson

477. *Drosera anglica*, Huds.

Wet Moors, &c., Orkney to Devon, &c.

Distrib. Europe, N. Asia, America.

<i>Sp.</i> Leckby Carr, N. Yorks.	...	...	1796	J. Dalton	Rev. J. Dalton
Leckby Carr	,,	...	1823	S. Hailstone	S. Hailstone
Terrington Carr	,,	...	1810	W. Middleton	W. Middleton

478. *Drosera intermedia*, Hayne.

Distrib. Europe (Arctic), W. Asia, &c.

<i>Sp.</i> Terrington Carr, N. Yorks....	...	...	1810	W. Middleton	W. Middleton
Milthorp Marshes, Westmoreland	...	...	1804	S. Hailstone	S. Hailstone
Skipwith Common, S.E. Yorks.	...	...	1883	H. J. Wilkinson	H. J. Wilkinson

HALORAGÆ.**479. Hippuris vulgaris, Linn.***Ponds & streams, Shetland to Cornwall.**Distrib.* Arctic & Temp. N. Hemisphere.

<i>Sp.</i> Staveley Carr, Yorks.	1791	J. Dalton	Rev. J. Dalton
Mill Dam, Boroughbridge, Yorks. ...	1806	S. Hailstone	S. Hailstone
River Cock, near Aberford ,, ...	1806	„	„
Nr. Rimswell, Holderness, S.E. Yorks.	1892	H. J. Wilkinson	H. J. Wilkinson

480. Myriophyllum verticillatum, Linn.

The specimen from “a bog in the field out of North Street Postern, York, S. Hailstone, 1803,” is too imperfect for identification. H.J.W. ...

...

...

S. Hailstone

481. Myriophyllum spicatum, Linn.

The specimen from “Askham Bogs, York, S. Hailstone, 1800, is not sufficiently developed to name as above. H.J.W.

...

...

S. Hailstone

482. Myriophyllum alternifolium.*Ponds and ditches, from Shetland to Cornwall.**Sp.* Back Common, Fakenham, Norfolk...

1847

W. L. Notcutt

S. Hailstone

483. Callitriche verna, Linn.*C. Vernalis, Kuetz.**Ponds and ditches, Shetland, southward.**Distrib.* All temperate and cold regions. (Arctic).*Sp.* Copgrove, Yorks.

1790

J. Dalton

Rev. J. Dalton

**484. Callitriche autumnalis,
Linn.**

Lakes, Orkneys to Devon.

Distrib. N. & Mid. Europe (Arctic).

Sp. Anglesea, Wales

DATE.

COLLECTOR.

HERBARIUM.

1830

J. Dalton

Rev. J. Dalton

LYTHRARIÆ.

485. Peplis portula, Linn.

Moist places, from Caithness, southward.

Distrib. Europe, N. Africa.

Sp. Langford Moor, Newark, Notts. ...

1820

W. Middleton

W. Middleton

Petersfield Heath, Hants.

(1830)

Dr. Bromfield

S. Hailstone

Copgrove, Yorks.

1790

J. Dalton

Rev. J. Dalton

Skipwith, S.E. Yorks.

1888

H. J. Wilkinson

H. J. Wilkinson

486. Lythrum salicaria, Linn.

River banks, ditches, &c., Argyll, southward.

Distrib. Temperate, N. regions (Arctic),
Australia.

Sp. York

1800

S. Hailstone

S. Hailstone

Between Silsden and Skipton, Yorks.

near the Canal

1801

„

„

Copgrove, Yorks.

1790

J. Dalton

Rev. J. Dalton

**487. Lythrum hyssopifolia,
Linn.**

Moist places, Cambridge, Norfolk, &c.

Distrib. From Hanover, southward,
N. and W. Asia.

Sp. Bury St. Edmunds, Suffolk... ..

(1800)

J. Dalton

Rev. J. Dalton

ONAGRARIÆ.**488. Epilobium angustifolium
Linn.***Banks and copses, Shetland, southward.**Distrib.* Temperate and Arctic Europe,
N. & W. Asia, &c.

<i>Sp.</i> Arundel, Sussex	...	...	...
Gordale, Yorks.	...	...	...
Copgrove ,,	...	...	...

1810

W. Middleton

W. Middleton

1801

S. Hailstone

S. Hailstone

1790

J. Dalton

Rev. J. Dalton

489. Epilobium hirsutum, Linn*Sides of ditches, &c., from Sutherland,
southward.**Distrib.* Europe, N. Africa, N. & W.
Asia.

<i>Sp.</i> Bath, Somersetshire	...	...	...
Horton Lane, Bradford, Yorks.	...	...	...
Copgrove, Yorks.	...	...	...

1803

J. Dalton

Rev. J. Dalton

1810

S. Hailstone

S. Hailstone

1790

J. Dalton

Rev. J. Dalton

**490. Epilobium montanum,
Linn.***Shady banks, walls, &c., Shetland,
southward.**Distrib.* Europe (Arctic), N. & W. Asia.

<i>Sp.</i> Hedges about Bradford, Yorks.	...	...	...
Ripon, Yorks.	...	...	...

1810

S. Hailstone

S. Hailstone

1820

W. Middleton

W. Middleton

**491. Epilobium lanceolatum,
Seb. & Maur.***Roadsides and stony places, Surrey to
Cornwall.**Distrib.* Belgium, southward.

<i>Sp.</i> Stapleton, near Bristol	...	...	...
Glen Frome, Gloucester	...	...	...

1846

G. H. K. Thwaites

S. Hailstone

1884

H. Fisher

H. J. Wilkinson

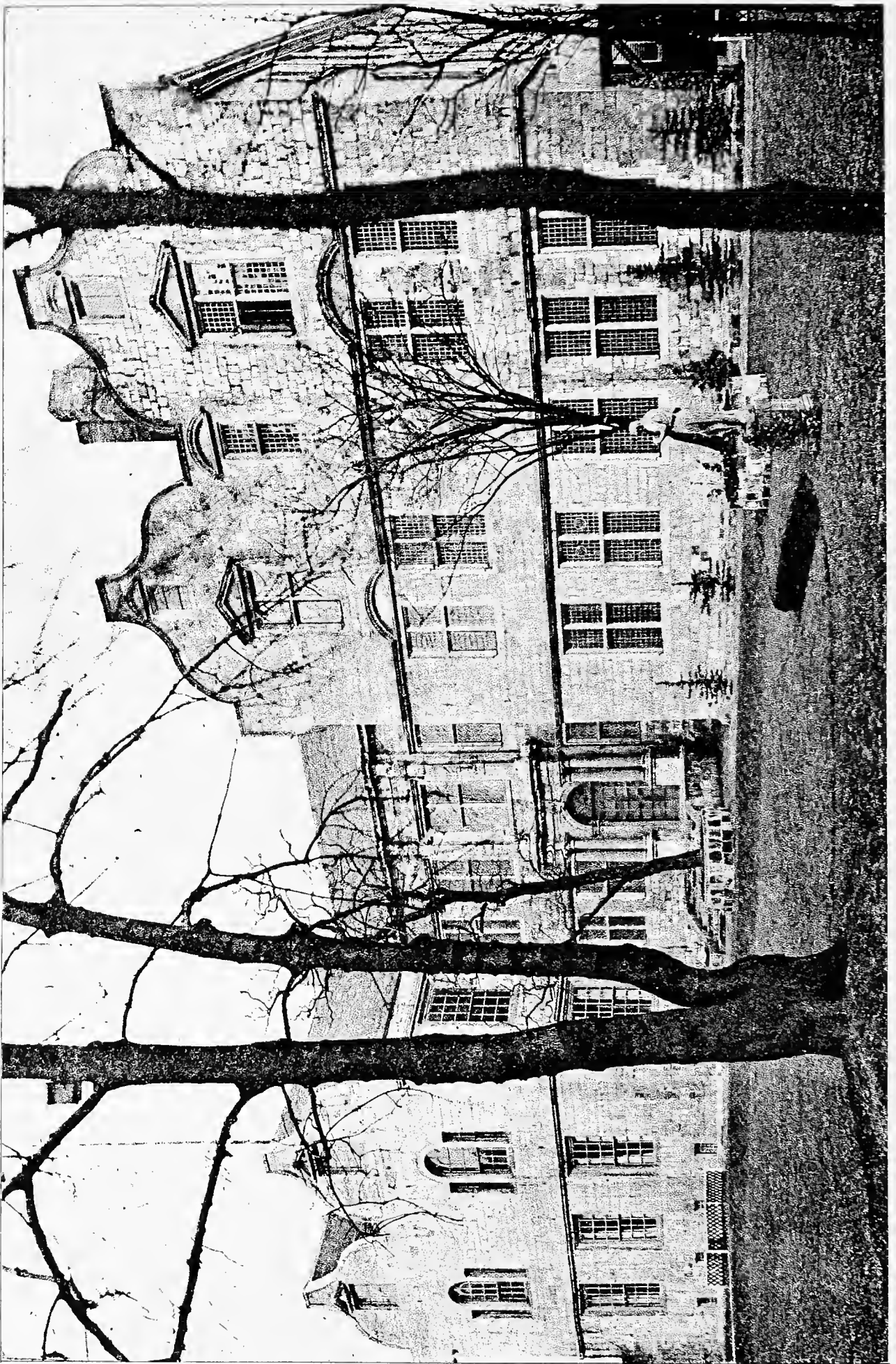
	DATE.	COLLECTOR.	HERBARIUM.
492. <i>Epilobium tetragonum</i>, Linn.			
<i>Wet places, from the Orkneys, southward.</i>			
<i>Distrib.</i> Europe (Arctic), N. and S. temperate zones.			
<i>Sp.</i> Croft, N. Yorks.	1830	J. Dalton	Rev. J. Dalton
493. <i>Epilobium obscurum</i>, Schreb.			
<i>Sub-nom tetragonum.</i>			
<i>Sp.</i> Croft, N. Yorks.	1830	J. Dalton	Rev. J. Dalton
494. <i>Epilobium palustre</i>, Linn			
<i>Bogs and ditches, from Shetland, south- ward.</i>			
<i>Distrib.</i> N. Temp. and Arctic Zones, Himalaya.			
<i>Sp.</i> Severus Hill, York	1800	S. Hailstone	S. Hailstone
Bramham Park, Yorks.	1849	Mr. Birkbeck	,,
495. <i>Epilobium alsinefolium</i>, Vill.			
<i>Spongy banks and rills, and in hilly dis- tricts, from Wales to Shetlands.</i>			
<i>Distrib.</i> Europe (Arctic), N. & W. Asia.			
<i>Sp.</i> Clova Mts., Forfars.	1846	S. Hailstone	S. Hailstone
Cronkley Fell, Yorks.	1810	J. Backhouse	,,
Ben Nevis, Inverness,	1810	W. Middleton	W. Middleton
Ben Lawers, Perth.	1806	J. Dalton	Rev. J. Dalton
Snowdon, Carnarvons.	1809	W. Middleton	W. Middleton
496. <i>Epilobium anagallido- folium</i>, Linn.			
<i>Alpine rills, Durham to Sutherland.</i>			
<i>Distrib.</i> Arctic and Alpine Europe, Asia, &c.			
<i>Sp.</i> Clova Mts., Forfars.	1850	J. Tatham	S. Hailstone
Clova Mts. ,,	1806	J. Dalton	Rev. J. Dalton

	DATE.	COLLECTOR.	HERBARIUM.
497. <i>Ludwigia apetala</i>, Walbr. <i>Boggy pools, &c., Sussex and Hants.</i> <i>Distrib.</i> From Hambury, southward.			
<i>Sp.</i> Buxtead, Sussex	1827	W. Borrer	Rev. J. Dalton
Petersfield Heath, Hants.	(1830)	Dr. Bromfield	S. Hailstone
498. <i>Oenothera biennis</i>, Linn. <i>Alien.</i> <i>Distrib.</i> N. America.			
<i>Sp.</i> Near Swansea	1810	J. Dalton	Rev. J. Dalton
Near Barmouth	1841	Rev. T. Butler	S. Hailstone
499. <i>Circæa lutetiana</i>, Linn. <i>Damp woods, &c., Aberdeen, southward.</i> <i>Distrib.</i> Europe, N. Africa, N. & W. Asia.			
<i>Sp.</i> Bradford, Yorks.	1810	S. Hailstone	S. Hailstone
Castle Howard, Yorks.	1883	H. J. Wilkinson	H. J. Wilkinson
500. <i>Circæa alpina</i>. The specimens under this name (in the Herbarium) are too imperfect for determining the species. H. J. W. ...	...	...	W. Middleton Rev. J. Dalton

CUCURBITACEÆ.

501. <i>Bryonia dioica</i>, Jacq. <i>Hedges and thickets.</i> <i>Distrib.</i> From Denmark, southward.			
<i>Sp.</i> Copgrove, Yorks.	1790	J. Dalton	Rev. J. Dalton





THE TREASURER'S HOUSE, YORK,

BY FRANK GREEN.

[These notes were mainly taken from information collected by the late Mr. Gray and kindly given by Mr. E. Gray to Mr. Green.]

THE history of this house begins with Thomas, Archbishop of York, who was appointed by William the Conqueror, in 1070. This Prelate was treasurer to the Conqueror and Canon of Bayeaux. He found the Minster in a state of chaos and the whole country laid in ruins by the Danes. Commencing at once to re-organize the Minster and repair the consequences of the neglect from which it had for so long suffered, he appointed a Chancellor, Treasurer, and Prebendaries, and built suitable residences for them, at the same time building the magnificent Palace, which stood for so many years on the site of the present Deanery Gardens, and of which the Deanery Library is the only part in existence at the present day.

Queen Elizabeth's first Archbishop, Thomas Young, whilst in occupation of Treasurer's House, pulled down the Great Hall of this Palace, in order to sell the lead and other materials to provide his son George with a suitable estate. This act of vandalism raised a storm of indignation, the remark of one Sir John Harrington being recorded—he "wished the lead had been melted and poured down Young's throat." By a strange circumstance the lead, etc., whilst on its way to London for sale, was appropriated by one of the Courtiers in whose charge Archbishop Young had placed it.

Radulphus was appointed the first Treasurer in 1100, and took up his residence in the Treasurer's House, which must, as the recent excavations have proved, have been in course of erection for some time on the site of a still older building.

The situation was a favourite one from the very earliest times, as the remains of some classic columns and the foundations of walls, etc., were uncovered, and are supposed to be *in situ* : it is imagined that they formed part of the Imperial Palace which is known to have stood between Aldwark and the Minster, the level being some twelve feet lower than the present ground floor.

The first house was probably burnt in the great fire of 1137 (which destroyed not only the Minster and thirty-nine churches, but the whole town), and was rebuilt by John le Roman in the reign of Edward I.

To this Treasurer is attributed the building of the house on the present scale.

Amongst the Treasurers is to be noted William, the patron saint of the adjoining St. William's College, of whom many miracles are recorded, one being that on his entry into the City in the year 1154, the crowds were so great that Ouse Bridge (then a wooden structure) collapsed, and all fell into the river, but by the prayers of St. William not one perished.

The official duties of Treasurer consisted of the care of the Treasury, the fabric of the Minster, and the proper control of all persons in the Minster ; but with regard to anything arising in the Choir he had no jurisdiction whatever, this being settled by the Dean and Chapter. He also supplied lights to the Altars, took care of the valuable Copes and other costly vestments then belonging to the Church.

The value of the Treasurership is quaintly put in the records as £233 06 08.

In the King's Books, first fruits	-	£220	00	00
Tenths	-	-	-	£ 23 06 08

The office became extinct in the reign of Henry VIII., the last Treasurer being William Clyffe, who in the year 1538 resigned his dignities, demesnes, manors, and advowsons to the King, his reason for so doing being an unanswerable one—*Abrepto omni thesauro, desiit thesaurarii munus*, which may be interpreted : “ Being plundered of all its treasure, it had no further need of a Treasurer.”

Edward the VI. granted all the possessions to the Protector Somerset who sold them to Archbishop Holgate for 200 marks, and with them the Treasurer's House. This Archbishop was appointed by King Henry VIII., to whom he at once made over the greater part of the Minster property. He is referred to as being one of the wealthiest men of this time. On the accession of Queen Mary he was deprived of the See, in 1553.

By his will dated 1555, he devised to be sold the Treasurer's House, and with part of the proceeds he founded the Hospital at Hemsworth (his birth-place) for twenty poor men and women. This bequest was the source of much litigation, suits for the recovery of the property from the various owners occurring constantly up to the end of the reign of Charles II.

Nicholas Heath, appointed Archbishop by Queen Mary, purchased the house from Archbishop Holgate, and sold it again, on deprivation in 1558, to Thomas Young, who was made Archbishop of York by Queen Elizabeth, and to whom reference has already been made. He was formerly Bishop of St. David's, and died in the year 1568. He devised the house to his wife Jane for life, and to his son George in tail male.

George Young was married to the daughter of Jasper Cholmley, of Highgate, and was knighted by James I. in 1603 at Whitehall on July 23. He appears to have won the favour of the King, as his Majesty and Lord Sheffield (the President of the Council of the North, and Commander of the "*Bear*" at the repulse of the Spanish Armada) dined with Sir George Young at Treasurer's House, and made eight Yorkshire Knights there, viz.: Sir William Ellis, Sir William Ingram, Sir William Howgate, Sir Peter Middleton, Sir John Hotham, Sir Richard Darley, and Sir Walter Bethell; the King lying at this time at St. Mary's Manor, now the Blind School.

Thomas Young (son of the above) sold the house to Sir Wm. Belt, the Recorder of York.

In Cromwell's time it passed to Lord Fairfax of Denton, and subsequently, in the time of Charles II., to Mr. Ayslaby of Ripon, an ancestor of the Robinson (now the Marquis of Ripon) family. Mr. Ayslaby died a tragic death, being killed, in a duel with rapiers, by Sir Jonathan Jennings, for having

shut the gates of the Treasurer's House upon Miss Mallory (daughter of Sir John Mallory of Studley, and sister to his second wife). The incident was brought about in the following manner :

Miss Mallory had been to a ball given by the Duke of Buckingham in in his Mansion on Bishophill, and Mr. Ayslaby had sent his carriage to fetch her, but the coachman missed her, and Sir Jonathan Jennings brought her to the Treasurer's House in his carriage, to find the gates locked. Failing to procure admission for her he took her, to the house of a relative in the Minster Yard close by, where she stayed the night. Next morning Sir Jonathan Jennings called upon Mr. Ayslaby and upbraided him for his conduct, whereupon Mr. Ayslaby challenged him to a duel, which was fought in a field at the back of Lord Mayor's Walk, and called Paynsley's Croft (now corrupted into Penley's Grove). The combatants crossed rapiers, and the first stroke of the Minster Prayer Bell (it was fought on Sunday, January 10th, 1674-5), was the signal to commence ; the result has been already recorded. Sir Jonathan Jennings was arrested and charged with murder, but being released on bail, he hastened to London, and obtained the pardon of King Charles the II.

Mr. Ayslaby and his wife are buried in the Minster Choir. The Treasurer's House now passed to his son, John Ayslaby, who entertained there James, Duke of York, and the Duchess of York. In connection with this visit the Lord Mayor and Corporation were deemed by the King not to have shown sufficient respect to their Royal Highnesses, in only waiting upon them in the Presence Chamber of Treasurer's House, and he showed his displeasure by taking away many of the ancient privileges and charters of the City, which were not restored until many years afterwards.

After 1698 the house passed to Mr. Squire, who re-decorated much of it in the Queen Anne style. He is buried in the Belfry Church, where his very elaborate tomb may be seen.

The house was often divided, and passed through many hands. Viscountess Preston (whose ancestors lived at Nunnington Hall, and whose family is now represented by Sir Richard Graham, of Netherby) a daughter of Lord

Carlisle, lived here in 1721. Her husband, Viscount Preston, was attainted, and on this account we find Lady Preston described in some deeds as Mrs. Graham.

Lord Widdrington, Lord Winchelsea, Henry Willoughby (Lord Middleton), Lord Rokeby, the Morritts of Rokeby, the Barstows, and the late Mr. Gray owned various parts of the now divided house.

The Banqueting Hall is late 15th Century, but another room was put in the upper part of the Hall by Sir George Young about 1620.

The fireplace and base mullion windows are about Henry VIII. period, and were most probably put in by the Treasurers or Archbishop Holgate. These mullions have been bricked up for over 198 years and have only recently been uncovered.

The stone carving in the frieze of the Banqueting Hall is Jacobean, and was covered at a later date by panelling.

Sir George Young also altered the gables and put the classical orders on the front. The Gothic gable at the back no doubt keeps the original shape, as a MSS. in the British Museum and other prints show all the gables pointed.

The basement has two doorways and a fireplace, and a 14th century head of Queen Phillippa was found in the excavations. It is now in the Hall.

The house is one of the few which exhibits architecture from the time of the Romans through the 11th, 12th, and 15th centuries down to George III.

The Tapestry drawing room is Charles II. The panelling and the tapestry of the dressing room were found under the wall paper, and are Jacobean.

The staircase is, according to old deeds, in its original position ; but is a modern reproduction of a similar one in St. William's College adjoining.

Mr. Temple Moore was the architect in the restoration of the house. Much of the decoration, etc., was suggested by Mr. Davenport.

Many of the designs for the upholstery are taken from old examples at Knole and Hardwick, by Mr. Bodley, Mr. Garner, and Mr. Gilbert Scott.

REPORT ON THE EXCAVATIONS
MADE IN THE
CHANCEL OF S. MARY'S ABBEY CHURCH.

BY W. H. BRIERLEY.

IT has for some time past been felt that the site of the Chancel of the Abbey Church ought to be subjected to the same careful examination as that bestowed in 1828, on the rest of the Abbey site, and hopes were entertained that the original pavement, and perhaps even the high altar, might be found in the course of exploration. The Council has therefore commenced systematic excavation and longitudinal and transverse trenches have been dug in the positions shewn on the accompanying plans, (*Plates I. and II.*) These trenches were carefully excavated to an average depth of five feet below the present surface where a gravelly clay was arrived at which is believed to be in its original position. The exploration has so far been disappointing, for no trace of the pavement or of its foundation has been discovered, and nothing of interest has been found except a few moulded stones and one or two fragments of tiles and glass which had been thrown in with the soil and debris.

In continuation of this work the Council have had the foundations of the main walls at the east end of the Choir opened out. They are found to be of great size and solidity, and built of large blocks of stone many of them moulded and evidently parts of the earlier church.

The foundations of the east wall are nine feet wide, and where opened out against the north-east pier they are found

to go down about seven feet below the ground floor level and to be evenly faced on the inside with chiselled stone, which would suggest that there has been a chamber or vault there.

In this work the Council are carrying out the suggestions of the late Chancellor Raine, who in a short paper on the Abbey, read before the Society in 1880, said: "Another desideratum is the proper exhibition of the remains of the Chancel. There has been too much of a tendency to subordinate the ruins to the garden instead of subordinating the garden to the ruins. What I recommend, and what is adopted in other places, as for instance at Fountains Abbey, is this, to clear away the soil and debris to the old floor level that we may see the old lines, and expose the bases of the pillars, the remains of the encaustic pavement, and such monuments as remain. The difficulty here is the presence of several large chestnut trees which must be allowed to fall into the decay which is so imminent, and which on no account must be renewed. All trees and earth must be removed from within the walls of the Abbey, and more than this, it is necessary that on the north side of the Chancel the buttresses and walls should be properly shown, and for this the earth between the church and the new garden, or the greater part of it, ought properly to be taken away. We shall never know the character of the architecture, or ascertain how the old church and the new are mutually connected unless this earth is removed."

The Council is desirous of carrying on these excavations, for even if no objects of striking interest are found in the course of excavation, the clearing of the ground will reveal the ground plan of the chancel, and enable the visitor to realize its extent and the magnitude of its enclosing walls. But unfortunately the income of the Society, hampered as it is by the repayment of a heavy debt, does not leave much margin for scientific work after payment of necessary expenses. It is to be feared that the work cannot be completed without outside pecuniary help.

EXPLANATION OF PLATES I. AND II.

PLATE I. shews the Chancel and such adjacent features as may enable the visitor to understand its position and the present stage of the work.

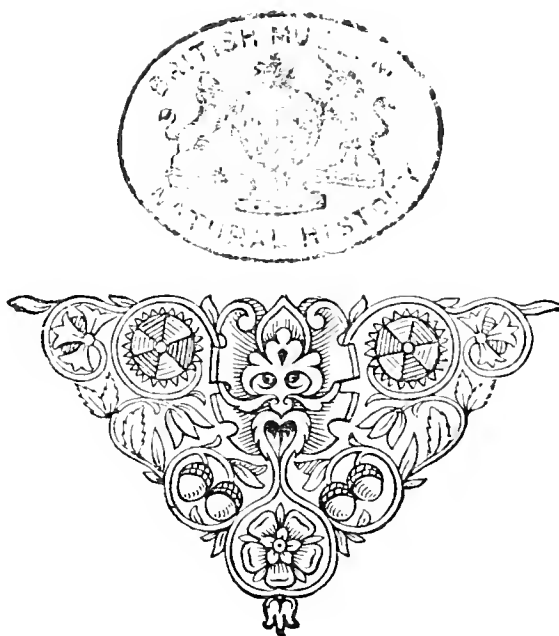
A B represents the foundations of the East wall as far as already uncovered, the dotted line shews where the footpath crossed it.

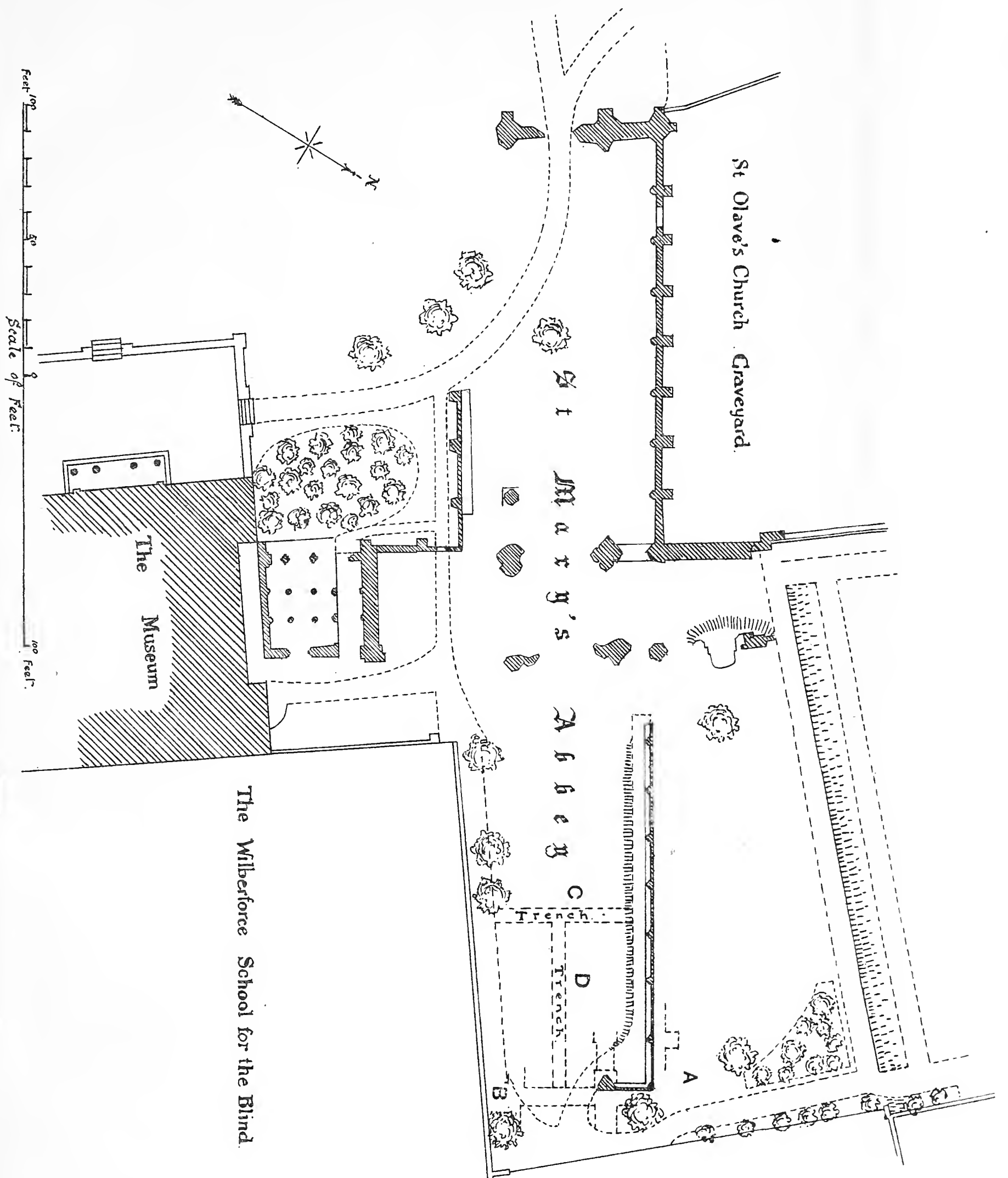
C is the transverse trench.

D is the longitudinal trench.

PLATE II. represents the eastern half of the Chancel on a large scale.

A is the column stump that originally stood above the old ground level, the other lines indicate foundations only.







St Mary's Abbey, York.

Plan of Excavations at East End
of Choir

